

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
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इस भाग में भिन्न पृष्ठ सख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE

Calcutta, the 29th April, 1978

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#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under the Section 135 of the Act.

23rd March 1978

- 315/Cal/78. Fried. Krupp Gesellschaft Mit Beschränkter Haftung. "Process for the production of steel from metal sponge using gas plasma as the energy source".
- 316/Cal/78. N. V. Phillips' Gloeilampenfabrieken. Low frequency am sterrophonic broadcast and receiving apparatus.
- 317/Cal/78. Winommechanikai Vallalat. Circuit arrangement for producing regulated alternating current or direct current voltage.
- 318/Cal/78. Finommechanikai Vallalat. Circuit arrangement for producing regulated direct or alternating current voltages.

25th March 1978

- 319/Cal/78. Milton Schonberger. Method of adjusting resistance of a thermistor.
- 320/Cal/78. Lucas Industries Limited. Battery charging systems for road vehicles. (April 2, 1977).
- 321/Cal/78. Lucas Industries Limited. Battery charging systems for road vehicles. (April 2, 1977).
- 322/Cal/78. Valery Fedorovich Gusev, (2) Gannady Nikolae-vich Ivanov, (3) Vladimir Yakovlevich Kontarev, (4) Genrikh Isaevich Krengel, (5) Vyacheslav Yakovlevich Kremlev, (6) Mansur Zakirovich Shavivaleev, (7) Jury Ivanovich Schetinin & (8) Azat Usmanovich Yarmukhametov. "Information shifter".

323/Cal/78. Narendra Mohan ha. Process for the manufacture of new aluminium and aluminium alloys by ferroboration and ferromolybdenum additions.

324/Cal/78. Mrs. Kamlesh Segan. Cartridge case trap, an apparatus for trapping fired cartridge cases on ejection from the weapons.

27th March 1978

- 325/Cal/78. Isomedics Incorporated. Automatic cell analyzer.
- 326/Cal/78. Sunit Kumar Mukherjee, Amar Bose & Reba Banerjee. "Improvements in or relating to dchydration for dehydrating vegetables, fruits or the like materials. [Addition to No. 110209].
- 327/Cal/78. Minnesota Mining and Manufacturing Company. Ultraviolet radiation protective, abrasion resistant, bloom resistant coatings.

328/Cal/78. Pravinchandra Chhaganlal Mehta. Instant tap water filter.

329/Cal/78. Premier Irrigation Equipment Private Limited. Quick action water riser coupler.

330/Cal/78. Premier Irrigation Equipment Private Limited. Quick action water riser coupler.

331/Cal/78. International Minerals & Chemical Corporation. "Beneficiation of phosphate ore".

28th March 1978

332/Cal/78. Nustep Trenndusen Entwicklungs-Und Patent-verwertungs-gesellschaft MBH & Co KG. A device for enriching uranium by the separating nozzle process.

333/Cal/78. Farmatis S. R. L. Contraceptive in the form of an intrauterine device.

334/Cal/78. B. H. B. Engineers Pty. Ltd., Improvements in articulated vehicles.

335/Cal/78. BASF Aktiengesellschaft. Limb-free and sulfide-free liming process.

336/Cal/78. A. E. Staley Manufacturing Company. Bland vegetable protein product and method of manufacture.

29th March 1978

337/Cal/78. Pravinchandra Chhaganla Mehta. Filtering medium for water.

338/Cal/78. Nippon Soda Company Limited. Imidazole derivatives.

339/Cal/78. Dr. Gray Ward. A solar applicator.

#### APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

20th March 1978

39/Mas/78. IDI. Chemicals Limited. Ammonium nitrate explosives.

40/Mas/78. R. Ramamoorthy. An apparatus for and a method of manufacture of elasto rigid members.

22nd March 1978

41/Mas/78. V. R. S. Kumar. An apparatus for blowing.

23rd March 1978

42/Mas/78. P. R. Srinivasan. A machine vice.

#### ALTERATION OF DATE

144324

1339/Cal/76.

Ante-dated 2nd April, 1974.

144360

361/Bom/77.

Ante-dated 11th March, 1976.

144396

405/Cal/77.

Ante-dated 10th October, 1974.

#### COMPLETE SPECIFICATION ACCEPTED.

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra is sent out of India) Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 32B & 56B.

144320.

Int. Cl.-C10g 11/18, C07c 11/00.

#### PROCESS FOR THE PRODUCTION OF OLEFINICALLY UNSATURATED HYDRO-CARBONS.

*Applicant* : PULLMAN INCORPORATED, OF 200 SOUTH MICHIGAN AVENUE, CHICAGO, ILLINOIS, UNITED STATES OF AMERICA.

*Inventors* : HAROLD BRUTTON BOYD, AND JAMES ROBERT LAMBRIX.

Application No. 1046/Cal/74 filed May 10 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A process for the production of olefinically unsaturated hydrocarbons which comprises the steps of :

(a) introducing a hydrocarbon feedstock comprising petroleum residuum into the catalytic cracking zone of a heavy oil cracking unit in the presence of fluidized cracking catalyst at cracking conditions such as herein described to produce a catalytically cracked effluent including a cracked naphtha fraction ;

(b) regenerating in any known manner said fluidized cracking catalyst in the regeneration zone of the heavy oil cracking unit ;

(c) producing high pressure steam in said regeneration zone by indirect heat exchange ;

(d) passing the cracked naphtha fraction to a thermal pyrolysis zone and thermally cracking said fraction to produce a thermally cracked effluent containing olefinically unsaturated hydrocarbons ;

(e) expanding said high pressure steam from step (c) to provide at least part of the gas compression energy required for recovery of the olefinically unsaturated hydrocarbons ; and

(f) recovering in any known manner olefinically unsaturated hydrocarbons.

CLASS 24D.

144321.

Int. Cl.-B60t 11/34.

#### BRAKE PRESSURE CONTROL VALVES.

*Applicant* : GIRLING LIMITED OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

*Inventors* : WOLFGANG HESS AND REINER VIEBAHN.

Application No. 248/Cal/75 filed February 11, 1975.

Convention date February 20, 1974/(7796/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A valve assembly for use in a vehicle braking system, comprising first and second valves having respective inlets for connection to separate pressure sources and respective outlets.

for connection to separate wheel brakes, wherein each valve has a movable valve part carried by an associated pressure responsive member, a stationary valve part co-operating with the movable part to control communication between the inlet and outlet, the stationary part being stationary at all times, and biasing means urging the pressure responsive member in a direction to maintain its valve open, and wherein the pressure responsive member is stepped and has opposed piston portions of different dimensions each being subjected to the pressure at the inlet of its associated valve to produce a net effect tending to close that valve in opposition to said biasing means, and has a further portion subjected to the inlet pressure of the other valve to produce an additional force on the pressure, responsive member, said additional force acting independently of the biasing force of the biasing means of said other valve and said additional force being removed upon failure of the inlet pressure of the other valve.

CLASS 39P & 40F.

144322

Int Cl.-C04b 11/04.

## PROCESS FOR THE MANUFACTURE OF CALCIUM SULPHATE ALPHA-HYDRATE.

*Applicant* : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1.

Inventors: JOHN SORBIE BERRIE AND GRAHAM  
EDWARD WOOLLEY.

Application No. 792/Cal/75 filed April 19, 1975.

Convention date May 3, 1974/(19444/74) U.K.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

11 Claims. No drawings.

A process for the direction manufacture of calcium sulphate alpha-hemihydrate which comprises the step of interacting a calcium chloride/sodium chloride containing liquor produced as a waste effluent in the ammonia soda process and sulphuric acid in an aqueous system at a temperature of above 70°C (the calcium sulphate hemihydrate/calcium sulphate dihydrate (gypsum) transition temperature under the reaction conditions).

CLASS 66D,

144323

Inl Cl.-H01t 9/00.

# MANUFACTURE OF DUAL FILAMENTED ELECTRIC LAMP.

*Applicant & Inventor* : BIJON KUMAR BISWAS, OF  
49/10-B, HINDUSTHAN PARK, CALCUTTA-700 029,  
WEST BENGAL, INDIA

Application No. 2288/Cal/75 filed December 2, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A dual filamented electric lamp comprising a glass bulb, a metal cap and two filaments which are connected in parallel or separately to the electric supply, one of the filaments being adapted to be supplied with electric current in the event the other filament is fused, wherein the two filaments are connected to two pairs of lead-in-wires in which each pair of lead-in-wires supporting one of the filaments, the lead-in-wires being connected to two diametrically opposed two pairs of contacts, the bulb being arranged to obtain the electric current from one pair of contacts and to be fixed at right angle to its first position in the event the filament is fused and to supply the other filament with electric current through the other pair of contacts, or wherein the two filaments are connected in parallel and supplied with electric current through two contact pins provided on the metal cap.

CLASS 32F b

144324.

Int Cl-C 07d 89/06; 89/12.

#### METHOD OF PREPARING NEW OXIME DERIVATIVES

*Applicant* : UNION CARBIDE CORPORATION, OF 270  
PARK AVENUE, NEW YORK, STATE OF NEW YORK  
10017, UNITED STATES OF AMERICA.

*Inventors:* JOHN APLING DURDEN JR. & ARTHUR  
PETER KURTZ.

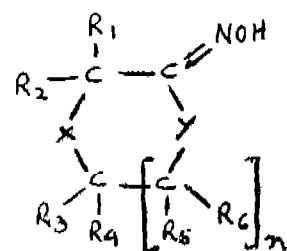
Application No. 1339/Cal/76 filed July 27, 1976.

Division of Application No. 737/Cal/74 filed April 2, 1974

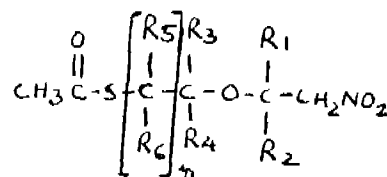
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A method of preparation an oxime compound of the general formula shown in Fig. 1.



which comprises reacting a compound of the formula shown in Fig. 2,



with a strong base; wherein :

$R_1$ ,  $R$ ,  $R_0$ ,  $R_1$ ,  $R$  and  $R_0$  may be the same or different and may be hydrogen, alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, alkylsulfinylalkyl or alkylsulfonylalkyl, with the proviso that no one substituent group may contain more than six carbon atoms:

X and Y may be O, S, SO, or SO<sub>2</sub> with the proviso that X or Y is O and when X is O, Y is other than O and when Y is O, X is other than O; and  
n is O or I

CLASS 98-L

144325.

Int. Cl.-F24j 3 /02.

A SOLAR HEAT ACTUABLE DIRECTING DEVICE.

*Applicant & Inventor* : PETER VON HARTITZSCH, OF  
32 MEIN STREET, NEW TOWN WELLINGTON, NEW  
ZEALAND.

Application No. 1375/Cal/75 filed July 15, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A solar heat actuable directing device comprising a pivotally mounted member to be directed to a more favourable disposition with respect to the sun as the sun moves during the day time, said member having associated therewith solar energy collection means, a fluid container in a constant relationship with said member to be directed, shield means statically associated with said fluid container arranged to shield said container from said sun when said member to be directed is at its most favoured disposition with respect to the sun but which permits sunlight to reach said container when said member to be directed has fallen behind the movement of the sun, fluid actuable ram means associated with said member to be directed capable of moving said member about its pivotal mounting from a less favoured disposition to a more favoured disposition with respect to said sun upon

receiving an appropriate modified fluid pressure caused by changes in the amount of heat from the sun being received by said fluid container, and fluid tight conduit means operatively connected between said container and said fluid actuable ram means to convey fluid pressure changes from said container to said fluid actuable ram means.

CLASS 52A.

144326.

Int. Cl.-B21f 11/00.

**ELECTRICAL WIRE CUTTING AND INSULATION STRIPPING DEVICE.**

*Applicant* : PARVEZ ENGINEERING COMPANY, 2218, BALLIMARAN, DELHI-110 006, INDIA.

*Inventor* : ABDUL HAFIZ.

Application No. 655/Cal/76 filed April 17, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An electrical wire cutting and insulation stripping device is characterised in that it consists of a pair of handles covered with insulated protectors and held to the two parts of the main body by means of a hinge pin and the said two parts of the main body connected together by an assembly of two links which is flexible from its centre and controls relative movement of the two parts of the main body while the said two parts of the main body remain hinged to the hinge pin and further characterised in that the said two parts of the main body carry a gripping clamp and stripping and cutting blades assembly connected thereto for transmission of force and motion through a pair of links from the said pair of handles.

CLASS 205-I.

144327.

Int. Cl.-B60b 25/04.

**A METHOD OF MANUFACTURING A VEHICLE WHEEL RIM AND A RIM SO MANUFACTURED.**

*Applicant* : WHEELS INDIA LIMITED, OF 37 MOUNT ROAD, MADRAS-600006, INDIA.

*Inventors* : KRISHNASWAMY RAMARATHAM AND KUZHUMANI MEENAKSHISUNDARAM NARAJAN.

Application No. 20/Mas/76 filed February 2, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims.

A method of manufacturing a vehicle wheel rim, composed of a fixed flange part for retaining the tyre bead of a tyre and a gutter part of retaining the conventional split lock ring for a detachable tyre bead retaining flange characterised by circling and butt-welding a plate of predetermined length, width and thickness to a cylindrical band, cold profiling the said cylindrical band, selectively heating the same and hot forming to achieve required thickness at the critical areas as determined by the design of the rim, coining the edge which is remote from its outer circumference to provide the said flange part by circling and butt-welding a hot rolled section of required length and of required profile and providing a step in matching relation to the step formed in the flange part, assembling the flange part and the gutter part with their corresponding steps in matching and overlapping relationship, with each other and thereafter circumferentially arc welding the two steps to form the finished rim.

CLASS 105B.

144328.

Int. Cl.-G01f 23/02.

**A DEVICE FOR INDICATING THE RESERVE LIFE (DURATION) OF LIQUIFIED PETROLEUM GAS IN A CYLINDER.**

*Applicant & Inventor* : SRINIVASAN GOPALAKRISHNAN, C/O. MR. R. SRINIVASAN, JOINT DIRECTOR OF FISHERIES, OFFICE OF THE DIRECTOR OF FISHERIES, MADRAS-600006, TAMIL NADU, INDIA.

Application No. 34/Mas/77 filed 14th February, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A device for indicating the reserve life of liquified petroleum gas in a cylinder comprising of a below assembly and one or more spring assembly or assemblies placed in between two plates, the said below assembly consisting of a below closed at one end and containing within it a fluid, the other end of the below assembly being connected to a transparent capillary tube, the said fluid also filling the transparent tube being supported either on the circumference of a container which is graduated or to any other graduated body, the said container enclosing the said two plates, below assembly and spring assembly, the scales being graduated to indicate the reserve life of liquified petroleum gas in a cylinder at any moment from the position of fluid in the transparent capillary tube with means being provided for adjusting the fluid position in the transparent capillary tube so as to coincide with the maximum limit in the graduated scale corresponding to the full life when a new liquified petroleum gas cylinder is placed thereon, the whole arrangement being such that when the cylinder is placed above the container enclosing the below assembly and spring assembly, the weight of its contents produces pressure within the bellow assembly forcing the fluid from the bellow into the transparent capillary tube to a level proportionate to its weights, the level of which is read from the graduated scale.

CLASS 14-B.

144329.

Int. Cl.-H01n 21/00.

**IMPROVEMENTS IN AND OR RELATING TO DRY BATTERIES.**

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

*Inventors* : DR. HANDADY VENKATAKRISHNA UDUPA, (2) SRI MAHADEV GOVIND POTDAR, (3) SRI RAMASWAMY NAGASETHUSUBRAMANIAN, & SRI VEERACHAMI BALARAMACHANDRAN.

Application No. 422/Cal/75 filed March 5, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

1 Claim. No drawings

A process for making dry batteries as claimed in Indian patents Nos. 103216 and 129034, characterised in that the carbon black used consists of one obtained as a waste in the naphthacacking units of fertilizer industry.

CLASS 107-K.

144330.\*

Int. Cl.-F01L 7/18.

**STRATIFIED CHARGE ROTARY VALVE ENGINE.**

*Applicant* : DANA CORPORATION, OF 4500 DORR STREET, CITY OF TOLEDO, STATE OF OHIO, UNITED STATES OF AMERICA.

*Inventor* : WILLIAM DIETER GUENTHER.

Application No. 485/Cal/75 filed March 12, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims.

An internal combustion engine of the rotary valve type including a cylinder in which a piston is axially movable, a rotary valve for controlling the supply of fuel and air to said cylinder and at least two separate inlet ducts, one of the ducts for supplying air or a lean fuel/air admixture and the other for supplying rich fuel/air mixture, the valve including at least one passage which communicates the respective inlet ducts with the cylinder to form a stratified charge within the engine cylinder.

CLASS 9-D.

144331.

Int. Cl.-C21c 7/00.

**IMPROVEMENTS IN OR RELATING TO COLOURING OF NICKEL CHROME STAINLESS STEEL ARTICLES.**

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : BALKUNJE ANANTHA SHENOI, (2) RAMACHANDRA SUBRAMANIAN, (3) RAMASUBBU VENKATACHALAM.

Application No. 915/Cal/75 filed May 8, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims. No drawings.

A process for colouring of nickel-chrome stainless steel articles comprises polishing degreasing and colouring in chromic acid and sulphuric acid mixture by immersion of the article at a temperature between 70°C and 90°C with tolerance limit being  $\pm 1^\circ\text{C}$  wherein the colouring mixture contains trivalent chromium ions ( $\text{Cr}^{3+}$ ) of 10g/l and other ions 5 g/l such as  $\text{Ni}^{2+} + \text{Cu}^{2+} + \text{Co}^{2+} + \text{Mn}^{2+}$  present as their sulphates, and hardening the same by cathodic treatment.

CLASS 57-D. 144332.

Int. Cl.-E05c 3/12.

A WINDOW LOCKING DEVICE.

*Applicant & Inventor* : BAL KISHAN KEJRIWAL, OF REGENT HOUSE, 12 GOVERNMENT PLACE, EAST, CALCUTTA-700069, WEST BENGAL, INDIA.

Application No. 961/Cal/76 filed June 3, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A window locking device comprising a mounting plate for fixing to a strut of a window said mounting plate having mounted thereon a rotatable latch having an arcuate interlocking groove to interlock with an arcuate ridge provided on a locking plate for fixing directly or indirectly to a window frame said locking plate having means for engaging said latch when said latch is rotated into the locking position and said engaging means comprising an arcuate channel provided in the under surface of said latch and coaxial therewith adapted to interlock with a corresponding arcuate ridge provided on said locking plate.

CLASS 87B. 144333.

Int. Cl.-A63b 37/00.

IMPROVEMENTS IN OR RELATING TO A METHOD OF PREPARING A GAME BALL AND A GAME BALL SO PREPARED.

*Applicant* : HANSFORD SPORTING GOODS PVT. LTD., G. T. ROAD, SURANUSSI, JULLUNDER, PUNJAB INDIA.

*Inventor* : MR. CHANDER KUMAR MAHAJAN.

Application No. 173/Del/77 filed July 27, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

A method of preparing a game ball characterized in that it consists of making an inner core by mixing cork with vulcanized rubber and giving the same a substantially round shape, applying over the said inner core three layers of cork wood and three layers of shreaded wool alternating with one another, the first layer of cork wood encircling the rubberised cork core and transferring the ball so formed into a die-mould where moulded synthetic material is injected on the outer surface of the ball and seams are formed simultaneously with the injection moulding.

CLASS 87C. 144334

Int. Cl.-A63b 53/00.

IMPROVEMENTS IN OR RELATING TO CRICKET BATS.

*Applicant* : HANSFORD SPORTING GOODS PRIVATE LIMITED, G. T. ROAD, SURANUSSI, JULLUNDER, PUNJAB, INDIA.

*Inventor* : MR. CHANDER KUMAR MAHAJAN.

Application No. 175/Del/77 filed July 27, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

An improved cricket bat of uniform strength has its handle incorporating a central cane shaft spliced into it and interspaced with a number of longitudinally laid rubber laminations along with its length characterised in that the central cane shaft has provision for housing a number of metal coil springs embedded inside the shaft and further characterised in that the back portion of the blade of the bat has provision of a number of circular or annular depressions with one smaller sized depression at the bottom of the blade through which oil is fed into the fibrous structure of the bat so as to saturate it with oil and thereby imparting uniform strength to the cricket bat.

CLASS 99E & F & 136E. 144335.

Int. Cl.-B29c 17/02, B29d 23/00.

PROCESS AND APPARATUS FOR THE MANUFACTURE OF A TUBULAR CONTAINER OF THERMOPLASTICS MATERIAL.

*Applicant & Inventor* : OSCAR PAKOVSKY, OF 37, AVENUE DUQUESNE, PARIS 7, FRANCE.

Application No. 2766/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

30 Claims.

Process for the manufacture of a tubular container of thermoplastics material with an end face and a tubular skirt depending therefrom, comprising providing a length of tubular thermoplastics material, sleeving this said length over a mandrel with an end portion of the length extending beyond an end of the mandrel, softening the end portion by heating, applying force to the material of the said end portion to effect construction of it inwardly then urging a cap against the said end of the mandrel over the material of the heated and constructed end portion so as to mould the end face of the container between the cap and the end of the mandrel, at least a greater part of the end portion being unenclosed both during the softening by heating of the end portion and during construction of it.

CLASS 24B & F. 144336.

Int. Cl.-F16d 51/18.

A FIXTURE FOR USE IN BONDING FRICTION LININGS TO PLATFORMS OF BRAKE SHOES.

*Applicant* : GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

*Inventor* : ALOIS RAFFAUF.

Application No. 794/Cal/75 filed April 19, 1975.

Convention date May 9, 1974/(20635/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A fixture for use in bonding a friction lining to a platform of a brake shoe, comprising a base, locating means for locating the platform and lining on the base, and including a plurality of wedge members secured to the base and each having a sloping surface which is engageable by an edge of said lining so that the edge of the lining is located internally inset from the adjacent edge of the platform, an arcuate support adapted to engage the radially outer surface of said friction lining, and resilient means arranged to act on the web to press the lining and platform together against the support.

CLASS 67C &amp; 206-I.

144337.

Int. Cl.-H04b 7/20.

IMPROVEMENTS IN OR RELATING TO SATELLITE DATA TRANSMISSION SYSTEM.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : HEINZ BAUM.

Application No. 831/Cal/75 filed April 25, 1975.

Convention date January 8, 1975/(731/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

A satellite communications transmission system having at least one satellite transponder and at least two ground radio stations between which multi-channel signals is to be transmitted at radio frequency via said transponder, said transponder having a distortion characteristic which is generally U-shaped as a function of frequency a transmitter at one of said ground stations, a single distortion remover of compensating the entire radio frequency in said transmitter, said transmitter having a plurality of individual signals channels, means in each of said channels for conversion the signal in each channel to an intermediate frequency means combining said converted signals to a common intermediate frequency band, said distortion remover receiving the output of said combined converted common intermediate frequency band and predistorting in with a characteristic having an inverted U-shape which is opposite to the distortion characteristic of said transponder, means for converting the output of said distortion remover to a radio frequency signal and radiating it to said transponder, and means at said other ground station for receiving said radio frequency signal from said transponder and demodulating the individual signals from said radio frequency signal.

CLASS 64B.

144338.

Int. Cl.-H01r 11/00.

APPARATUS FOR TERMINATING A PLURALITY OF CONDUCTORS IN AN ELECTRICAL CONNECTOR.

*Applicant* : BUNKER RAMO CORPORATION, INCORPORATED IN THE STATE OF DELAWARE, UNITED STATES OF AMERICA, 900 COMMERCE DRIVE, OAK BROOK, ILLINOIS, UNITED STATES OF AMERICA.

*Inventor* : HARLEY RAYMOND HOLT.

Application No. 1563/Cal/75 filed August 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 35 Claims.

A conductor terminating mechanism for terminating a plurality of insulated conductors in respective terminating portions of respective spaced apart electrical contacts which are supported in alignment by an electrical device, comprising : device support means for supporting the electrical device; conductor support means for supporting a plurality of free-ended insulated conductors; a carriage, said carriage and said device support means mounted for relative movement in the direction of alignment of the electrical contacts between points spaced a distance of at least the spacing between the terminating portions of the electrical contacts; an insertion tool mounted on said carriage for movement toward the electrical device and including at least one insertion blade for engaging and pressing a conductor into the terminating portion of the electrical contact; a conductor guide means for accurately positioning a conductor in an interference relationship with the insertion tool between the tool and a terminating portion of an electrical contact as the conductor is moved, under tension, toward that termination position; and control means operable to effect movement of said carriage to the spaced points and upon accurate positioning of the conductor to effect movement of the insertion tool.

CLASS 71G &amp; 166C.

144339.

Int. Cl.-E02f 5/00.

IMPROVED CUTTER DEVICE FOR USE WITH A SUCTION DREDGER FOR DESILTING OF RIVER AND WATERWAYS.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

*Inventors* : KALHAN KUMAR SANYAL, DR. SUBBARAO RAMACHANDRA AND GOBINDA CHANDRA BHATTACHERJEE.

Application No. 1631/Cal/75 filed August 21, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

Improved cutter device for use with a suction dredger for desilting of rivers and waterways comprises a set of blades mounted on a flat circular base plate terminating at the hub end after a twist wherein the cutter blades are profiled from the base ring (where the boom-angle of inclination is from 5° to 40°), characterised in that the blades are twisted to form a flat portion on the top end to serve as a mixer and has a curvature to give a 'spoon' action to the soil.

CLASS 129Q.

144340.

Int. Cl.-B23K 11/00.

ROLL-SEAM RESISTANCE WELDING MACHINE.

*Applicant* : INSTITUT ELEKTROSVARKI IMENI E.O. PATONA AKADEMII NAUK UKRAINSKOI SSR OF KIEV, ULITS A GORKOGO, 69 USSR.

*Inventors* : MIKHAIL DMITRIEVICH MAKAROV, JURY GAVRILOVICH VYSOTAY, BORIS IVANOVICH KONONETS, BORIS IVANOVICH PODKOLOZIN AND KONSTANTIN ANDREEVICH JUSCHENKO.

Application No. 1638/Cal/75 filed August 21, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A machine for roll-seam resistance welding of metal sheet materials comprising : a bed; two welding rolls facing each other in a horizontal plane, a backing strap arranged under said rolls; a carriage installed above said bed with a provision for progressive movement along the seam to be welded and carrying said roller electrode and spring-loaded disc knives mounted on a common axle and intended for parallel trimming of the metal sheet ends before welding; flat knives and said backing strap whose side facing the first electrode constitutes a working surface for supporting the welded ends of the sheet material characterised by that said knives and electrode are fixed in a stationary way on said bed under the roller electrodes so that the cutting edges of the flat knives are arranged at the same level with the working surface of the backing strap, parallel to the sides of said surface; rests with grips for clamping the ends of the metal sheets fed for welding, installed on said bed with a provision for moving towards each other and located on both sides of the backing strap in the direction of feed of the metal sheets for welding; said grips being formed by the upper gripping jaws installed on the rest with a provision for vertical movement and protruding beyond the rest towards the backing strap by a distance which is larger than the distance between the flat knife and the second electrode.

CLASS 190B.

144341.

Int. Cl.-F02c 7/22.

FUEL DISTRIBUTION ARRANGEMENT IN A GAS TURBINE ENGINE.

*Applicant & Inventor* : VASILY PETROVICH DMITRIYEV, STUPINO MOSKOVSKOI OBLASTI, ULITS A KALININA

10 KV, 20, USSR. (2) ANATOLY MIKHAILOVICH POLYAKOV, STUPINO MOSKOVSKOI OBLASTI, ULITSA GORKOGO 35, KV. 6, USSR. (3) ALEXANDR GRIGORIEVICH TOMILIN, STUPINO MOSKOVSKOI OBLASTI, ULITSA KALININA 28, KV. 2, USSR. (4) STANISLAV MIKHAILOVICH SHUSHPAN, STUPINO MOSKOVSKOI OBLASTI, ULITSA PUSHKINA, 27/28, KV. 8 USSR.

Application No. 1716/Cal/75 filed September 6, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims.

An arrangement for distributing fuel between the main and pilot manifolds of a gas-turbine engine through passages connecting said manifolds to the fuel delivery line of a metering element, which arrangement comprises : a jet and two valves incorporated in the passage connecting said fuel delivery line to said main manifold, said jet and two valves being arranged for work in parallel, a bypass forming in the jet the fuel pressure in said delivery line being maintained so that when the fuel pressure reaches the predetermined value, the first valve opens to allow the fuel to flow therethrough, bypassing the jet, and when the engine speed is reached at which the combustion of the fuel delivered through the main manifold becomes steady, the second valve opens and allows fuel to flow therethrough bypassing said jet and said first valve.

CLASS 116C.

144342.

Int. Cl.-B65g 15/00.

APPARATUS FOR THE SYNCHRONOUS RUNNING OF INDEPENDENTLY DRIVEN PROCESSING UNITS OF PRODUCTION LINES.

*Applicant* : EGYESULT IZZOLAMPA ES VILIAMOSS-AGI RT, BUDAPEST 77 VACI UT, HUNGARY.

*Inventors* : BERTALAN FLEISCHER AND SANDOR LENGUEL.

Application No. 2287/Cal/75 filed December 2, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims.

Apparatus for synchronously running production lines with continuous and/or intermittent goods transport comprising at least two processing units with respectively independent, individual drives and adjacently placed in the direction of production flow, and endless transporting member arranged between the processing units and adapted to be driven in a slip-free manner, the transporting member having at least two drive gears each of which is kinematically rigidly connected with a respective one of the independent individual drives of the processing units, each drive gear being furthermore drivingly connected to respective strands of the transporting member, which strands extend over a linearly displaceably journaled compensating bridge to a respective idler rotatable freely without slip, the drives of the individual processing units being electric motors of the synchronously starting reluctance motor type.

CLASS 84C.

144343.

Int. Cl.-C101 5/00.

PROCESS FOR THE BENEFICATION OF A LOW RANK SOLID FUEL.

*Applicant* : TEXACO DEVELOPMENT CORPORATION, OF 135 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventors* : EDWARD LAWRENCE COLE, HOWARD VINCENT HESS, WILLIAM FRANCIS FRANZ AND JAMES WONG JR.

Application No. 2342/Cal/75 filed December 15, 1975.

Patents Rules, 1972) Patent Office, Calcutta.

Appropriate office for opposition Proceedings (Rule 4,

21 Claims. No drawings.

A process for the beneficiation of a low rank solid carbonaceous fuel which comprises subjecting said solid fuel which comprises subjecting said solid fuel to water treatment characterized in that said water treatment is carried out under non-oxidising conditions and by forming a mixture of particulate low rank solid fuel and water, said mixture containing at least 40% by weight of water, heating the mixture to a temperature between 300°F and the critical temperature of water (as herein defined) at a pressure sufficient to maintain liquid water in the reaction zone for a period of time sufficient to decrease the sulfur and ash content of the fuel below their original level and to increase the BTU value of the fuel above its original level and then separating water from the so-treated fuel.

CLASS 32A<sup>1</sup> & 62C<sup>1</sup>.

144344.

Int. Cl. C09h 31/04; D06p 1/16.

AN IMPROVED PROCESS FOR THE PREPARATION OF WATER-SOLUBLE AZO DYESTUFFS.

*Applicant* : HOECHST AKTIENGESellschaft, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : JOSEF LANDLER, (2) ERHARD WORFEL.

Application No. 152/Cal/76 filed January 28, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

### 7 Claims.

An improved process for the preparation of a water-soluble azo dyestuff of formula  $D-N=N-K$  in which D is the radical of an aromatic carbocyclic or heterocyclic diazo component such as herein described and K is the radical of a coupling component selected from the naphthol series, the tertiary amine series, the pyrazolone series, the barbituric acid series, the malonic acid series, the acetoacetyl-arylide series, the hydroxy-quinoline series, hydroxycarbazole series, phenol series and the 2, 3-hydroxy naphthoic acid series with the proviso that at least D or K contains one sulfo group, by diazotization of an aromatic amine of formula



Wherein D is defined as above with a stoichiometrical amount of an organic or inorganic nitrite and reaction with a stoichiometrical amount of a coupling component of formula



In which K is defined as above the improvement comprising carrying out the diazotization and coupling reactions in water and/or organic solvent medium which does not contain a group with an acidic or basic effect at least the amine or the coupling component containing at least one water soluble free acid group, the aromatic amine and the coupling component being reacted with the nitrite without adding an acid and optionally adjusting at the same time as or after the addition of the nitrite, the pH value of the reaction medium to be adequate for the coupling reaction to occur, said pH adjustment being conducted by means of an acid binding inorganic compound or buffer substance selected from the group consisting of an alkali metal or an alkaline earth metal hydroxide or salt of an inorganic or organic acid, at the same time as or after addition of the nitrite.

CLASS 32-F.

144345.

Int. Cl. C08f 3/04.

PROCESS FOR THE PRODUCTION OF AN ETHYLENE POLYMER.

*Applicant* : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, SW1P 3JF, ENGLAND.

*Inventors* : DENIS GEORGE HAROLD BALLARD, ERIC JONES & JOHN CHRISTOPHER PADGET.

Application No. 412/Cal/76 filed March 8, 1976.

Convention date March 7, 1975 (9563/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 25 Claims.

A process for the production of an ethylene copolymer wherein ethylene and a comonomer which is at least one mono- $\alpha$ -olefine, at least 50% molar of the mono- $\alpha$ -olefine which is the comonomer having 5 or more carbon atoms, are contacted at a temperature of upto 300°C and a pressure of up to 1000 atmospheres with a transition metal olefine polymerisation catalyst which is the product of reacting a substantially inert matrix material having a hydroxylic surface (as hereinbefore defined) which is free from adsorbed water, with a transition metal complex of the general formula :



where M is a transition metal of groups IVA to VIA of the Periodic Table of the Element;

R is a hydrocarbon group or substituted hydrocarbon group, X is a singly charged anionic ligand or monodentate neutral ligand;

m is an integer having a value from 2 up to the valency of the metal M; and

p is 0 or an integer having a value up to 2; and separating from the reaction medium by a method known per se a polymeric product having an annealed density (as hereinbefore defined) in the range from 918 up to 940 kg/m<sup>3</sup>, an apparent viscosity (as hereinbefore defined) measured at a temperature of 200°C and a shear rate of 100 sec<sup>-1</sup> in the range from  $0.5 \times 10^4$  upto  $3.0 \times 10^4$  Nsm<sup>-2</sup> and a viscosity measured at a temperature of 200°C and at a stress of 103 N/m<sup>2</sup>, which is at least 2Ae ( $1.6A \times 10^3$ ) and is not more than 1000A, where A is the apparent viscosity at 200°C and a shear rate of 100 sec<sup>-1</sup>.

CLASS 32F<sub>1a</sub> & C.

144346.

Int. Cl. C07c 99/00; 101/02.

**METHOD FOR THE PREPARATION OF AMINOACIDS FROM THE CORRESPONDING CARBAMYL DERIVATIVES AND SALTS OF SAID DERIVATIVES.**

*Applicant* : SNAMPROGETTI S.P.A. OF CORSO VENEZIA 16, MILAN, ITALY.

*Inventors* : FRANCESCO CECERE, (2) WALTER MARCONI, (3) FRANCO MORISI, AND BRUNO RAPPUOLI.

Application No. 611/Cal/76 filed April 8, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims. No drawing.

A method for the preparation of aminoacids comprising the step of reacting the carbamyl derivative of the corresponding aminoacid, or a salt of said derivative, with an oxidizing agent such as herein described in the presence of an acid-group-containing cationic ion-exchange resin.

CLASS 32-E.

144347.

Int. Cl. C08f 3/24; 1/11; 1/13.

**IMPROVEMENT IN THE PROCESS FOR THE MANUFACTURE OF HOMO-AND COPOLYMERS OF TETRAFLUOROETHYLENE.**

*Applicant* : HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80 FEDERAL REPUBLIC OF GERMANY.

*Inventors* : JURGEN KUHLS, (2) ALFRED STEININGER, & HERBERT FITZ.

Application No. 915/Cal/76 filed May 26, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

Process for homopolymerizing tetrafluoroethylene or copolymerizing tetrafluoroethylene with other fluorolefins by the suspension or emulsion process at the usual pressures and temperatures, in the presence of a redox catalyst system consisting of a known peroxidic oxidizing component and a reducing component and optionally in the presence of emulsifiers, precipitating agents, buffer substances, traces of heavy metal salts or anti-coagulants, which comprises using as reducing component of the redox system diimine set free in situ from a water-soluble nitrogen compound liberating a diimine under the polymerization conditions such as hereinbefore described.

CLASS 73.

144348.

Int. Cl. D06m 11/00.

**A COMPACTING APPARATUS.**

*Applicant & Inventor* : BINDU GANDHI, TEMPORARY OF 17, CAMAC STREET, CALCUTTA, INDIA.

Application No. 1512/Cal/76 filed August 19, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A compacting machine adapted to compact a web such as paper or fabric comprising a pressure or heated drive roller, a front and rear roller, either said front or rear roller being also a drive roller and the other roller being a driven roller, an endless rubber blanket traversing on said front and rear rollers and adapted to obtain a drive from the front rear drive roller and such that the speed of the endless blanket is different to that of the heated roller, a nip roller adapted to apply a pressure on the front or rear drive roller characterized in a first d.c. motor for providing a drive to the heated roller and a second d.c. motor for providing a drive to the other of said drive roller, the armature or field windings of one of said motors having a voltage fed thereto different to the remaining armature or field windings.

CLASS 62C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, & C<sub>4</sub>.

144349.

Int. Cl. C09b 62/00; 65/00.

**STABLE LIQUID WATER-CONTAINING DYEING COMPOSITIONS CONTAINING DISPERSE AND REACTIVE DYE STUFFS.**

*Applicant* : HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

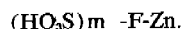
*Inventors* : KONRAD OPITZ, & HEINRICH HELLING.

Application No. 1113/Cal/76 filed June 22, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

Stable liquid water-containing dyeing compositions, containing 3 to 25 percent by weight of at least one reactive dyestuff of the general formula



In which F is the radical of a dyestuff chromophore of an anthraquinone, monoazo, disazo, triazo or phthalocyanine dyestuff, Z is a fibre-reactive group, m is an integer of from 1 to about 6 and n is an integer of from 1 to 3, furthermore containing 3 to 25 percent by weight of at least one disperse dyestuff, 0.5 to 5% by weight of a buffer substance which is not capable of a chemical reaction with the reactive group Z and 3 to 40 percent by weight of dispersing agents and wetting agents, antifreezing agents or preservatives or mixtures thereof, as well as water and having furthermore a pH value between 4 to 7.

CLASS 172-E.

144350.

Int. Cl. B65h 54/48.

**A GROOVED DRUM.**



**Applicant :** N. P. KINARIWALLA PRIVATE LIMITED,  
OF 148, MUKTI MAIDAN, MANINAGAR, AHMEDABAD-  
380 008, GUJARAT STATE, INDIA.

**Inventor :** SAURABH KINARIWALLA.

Application No. 1550/Cal/76 filed August 24, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims.

A drum formed of a single integral member and having a longitudinal axis, said drum having grooves therein intersecting at locations of said drum subject to wear and tear, said drum having bores therein extending at an acute angle to said axis and disposed laterally of and adjacent to said locations, and guide members of relatively hard material received in said bores reinforcing said locations, each of the said guide members being solely supported in an individual bore.

CLASS 172-C 144351.

Int. Cl. D01g 15/00.

**IMPROVED COMBING AND CLEANING DEVICE FOR USE WITH CARDING MACHINES.**

**Applicant & Inventor :** JAUN BARCONS ESTEBANELI,  
OF AVENIDA DR. FLEMING, 8, SAN FRUCTUOSO DEL  
BAGES BARCELONA, SPAIN.

Application No. 2327/Cal/75 filed December 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims.

A combing and cleaning device for use with carding machines, comprising a framework for mounting to a carding machine, a first carding cylinder mounted in the framework, means for driving the first cylinder in a direction opposite to that of the main drum of the carding machine, a second carding cylinder of lesser diameter than the first mounted in the framework, both cylinders being adjustable within the framework, and two curved plates each curved about an axis parallel to said cylinders and positioned one at either side of the cylinders for location adjacent the main drum to form a space therebetween each said plate forming a part cylindrical surface about an axis parallel to said cylinders.

CLASS 128-K. 144352.

Int. Cl. A61b 17/04.

**A NEEDLE SUTURE COMBINATION AND METHOD OF PREPARING THE SAME.**

**Applicant :** ETHICON INC., OF SOMERVILLE, NEW JERSEY, UNITED STATES OF AMERICA.

**Inventor :** MIGUEL MARTINEZ.

Application No. 205/Cal/77 filed February 14, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 18 Claims.

A needle suture combination wherein the suture is secured in an axial opening in the needle solely by means of a bonding agent, characterized by that the bonding agent consists of a wax composition having a melting point above about 45°C. and having a bonding affinity for the needle suture combination which provides a needle pull-off value of from about 3 to 26 ounces at room temperature.

CLASS 206-C. 144353.

Int. Cl. H01r 3/00.

**WAVEGUIDE TO COAXIAL ADAPTER-INLINE AND BROADLINE TYPES.**

2-47GI/78

**Applicant :** THE CHIEF CONTROLLER RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA).

**Inventors :** RAGHUPATHI GANDHI & SUBRAHMANYA SUNDARAM.

Application No. 10/Del/77 filed January 14, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 8 Claims.

The waveguide to coaxial adapter of the inline and broad-line type consists of a metallic tubing rigidly closed at one end with a metallic plate and open at the other end, a coaxial connector terminal fitted to end or broad wall of the waveguide and a shaped dielectric insert positioned inside the said waveguide.

CLASS 32A<sub>3</sub>. 144354.

Int. Cl. C09b 23/00.

**PROCESS FOR THE MANUFACTURE OF STYRYL DYESTUFFS.**

**Applicant :** CIBA-GEIGY OF INDIA LIMITED OF  
AAREY ROAD, GOREGAON EAST, BOMBAY-63, MAHARASHTRA, INDIA.

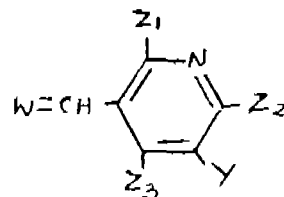
**Inventors :** DR. MALIN BINDUPRASAD DESAI, & DR. VISWANATHAN RAMANATHAN.

Application No. 225/Bom/1974 filed June 14, 1974.

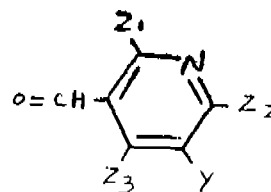
Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patents Office, Bombay Branch.

#### 6 Claims.

A process for the manufacture of styryl dyestuff which do not contain any acid water-solubilising groups such as sulphonic acid groups and have the formula 1.



the provisional specification wherein two of the three radicals  $Z_1$ ,  $Z_2$  and  $Z_3$  represent groups of the formula  $NR'R''$  and the third represents a group of the formula  $-NR'R''$ ,  $-OR''$  or  $-S-R''$ , in which each  $R'$ ,  $R''$  and  $R'''$  represents hydrogen or aryl, alkyl cycloalkyl or an aliphatic radical containing 1 to 12 carbon atoms and  $R'$  and  $R''$  can together with the amino nitrogen represent a ring and the radicals  $-NR'R''$  may be the same or different,  $Y$  represents a radical of the formula  $-CN$  or  $-CONH_2$ , and  $W$  represents the radical of an active methylene group described herein and which is bonded to the  $-CH=$  group through the carbon atom of the active methylene group, and  $Z_1$  is furthermore a hydrocarbon radical containing 1 to 12 carbon atoms wherein an aldehyde of the formula 11.



in which  $Z_1$ ,  $Z_2$ ,  $Z_3$  and  $Y$  have the same meanings as given hereinabove is reacted with a compound of the formula  $W-H_2$  in which  $W$  has the same meaning as hereinbefore, and, if  $Y = CN$ , the cyano group is converted to the  $-CONH_2$  group

by reaction with concentrated sulphuric acid, or the resulting dyestuff, if it contains quaternisable nitrogen atoms, is quaternised by treatment with alkylating agents as herein described.

CLASS 2A<sub>1</sub> & 29D.

144355.

Int. Cl. G09f 11/00; 13/00; G06k 15/00.

#### A MULTICHANNEL DIGITAL DISPLAY MEANS.

*Applicant & Inventor* : PHOOL CHAND SEXENA, SHANTARAM RANGATH GAIKWAD, VAJAYANTI VAMAN ERANDE, ALL C/O. CENTRAL WATER AND POWER RESEARCH STATION, P.O. KHADAKWASLA RESEARCH STATION, POONA-411024, MAHARASHTRA, INDIA.

Application No. 376/Bom/75 filed December 22, 1975.

Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patents Office, Bombay Branch.

#### 6 Claims.

A multichannel digital display device adapted to provided a digital reading of a plurality of parameters comprising a scanner having a plurality of input terminals and of which a single input is fed at any one time thereto. the output from said scanner fed to analogue digital converter having a digital display, a controller connected to said scanner and analogue to digital converter for allowing only a single voltage of the input signal to be converted into a digital signal.

CLASS 29D.

144356.

Int. Cl. G06k 1/00; 3/00.

#### MULTICHANNEL DATA LOGGER.

*Applicant & Inventor* : PHOOL CHAND SEXENA, SHANTARAM RANGATH GAIKWAD, VAJAYANTI VAMAN ERANDE, ALL C/O. CENTRAL WATER & POWER RESEARCH STATION, P.O. KHADAKWASLA RESEARCH STATION, POONA-411024, MAHARASHTRA, INDIA.

Application No. 377/Bom/75 filed December 24, 1975.

Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patents Office, Bombay Branch.

#### 7 Claims.

A multichannel data logger adapted to record a single or a plurality of parameters comprising a typewriter, each key of the typewriter adapted to be actuated by its respective driver circuit, an actuator provided between said driver circuit and key, at least one decoder circuit having a single or a plurality of inlets for receiving digital voltages corresponding to said parameters, the logical output of said decoder circuit connected to said driver circuits through logic circuits.

CLASS 32-C. & 182B.

144357.

Int. Cl. C07c 47/00; 49/00; C13k 9/00.

#### A PROCESS FOR THE PREPARATION OF D-SORBITOL FROM D-GLUCOSE.

*Applicant* : M/S. CAMPHOR AND ALLIED PRODUCTS LIMITED, 133, MAHATMA GANDHI ROAD, BOMBAY-400023, MAHARASHTRA, INDIA.

*Inventors* : MANDAYAM CHAKRAVARTHY SRIRAMAN & SUKH DEV.

Application No. 86/Bom/76 filed March 11, 1976.

Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patents Office, Bombay Branch.

#### 6 Claims. No drawings.

A process for the preparation of D-sorbitol from D-glucose which comprises hydrogenation of aqueous solution of D-glucose (dextros monohydrate) using Raney nickel catalyst, characterised in that the Raney nickel catalyst is used with

a promotor system as herein described and at temperature and pressures as herein described.

CLASS 32F<sub>d</sub>.

144358

Int. Cl. C07d 7/00.

#### A PROCESS FOR THE PREPARATION OF OXA-3-NORCARAN-2-ONE.

*Applicant* : M/S. CAMPHOR AND ALLIED PRODUCTS LIMITED, 133, MAHATMA GANDHI ROAD, BOMBAY-400 023, MAHARASHTRA, INDIA.

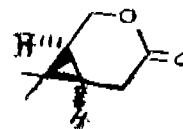
*Inventors* : SHRI RAVI SOBTI & SHRI SUKH DEV.

Application No. 89/Bom/76 filed March 11, 1976.

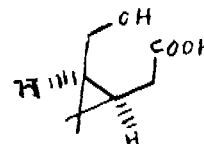
Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patents Office, Bombay Branch.

#### 6 Claims.

A process for the preparation of oxa-3-norcaran -2-one (also referred to as the  $\delta$  — Lactone) of formula I.



which comprises (a) preparing hydroxy acid of formula VIII.



from alkyl or aryl 2, 2-dimethyl-3-acetoxymethyl-cyclopropane cis-1-acetate (also referred to as the acetate ester) of formula V.



by reacting the said acetate ester of formula V of the accompanying drawing with an alkali, as herein described, at 25° to 100°C for 15 minutes to 10 hours followed by acidification, extraction with an immiscible solvent, as herein described and removal of the solvent; (b) lactonising the said hydroxy acid of formula VIII of the accompanying drawing under reduced pressure and heating, as herein described, to give the  $\delta$  — lactone of formula I of the accompanying drawing.

CLASS 32F<sub>ac</sub>.

144359.

Int. Cl. C07c 23/00.

#### A PROCESS FOR THE PREPARATION OF 2, 2-DIMETHYL-3-HYDROXYMETHYL-CYCLOPROPANE-CIS-1, (2'-METHYL) PROPAN-2'-OL.

*Applicant* : CAMPHOR & ALLIED PRODUCTS LIMITED, 133, MAHATMA GANDHI ROAD, BOMBAY-400 023, MAHARASHTRA, INDIA.

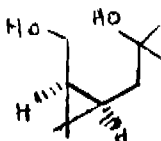
*Inventors* : RAVI SOBTI & SUKH DEV.

Application No. 90/Bom/76 filed March 11, 1976.

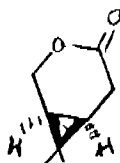
Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patents Office, Bombay Branch.

## 4 Claims.

A process for the preparation of 2, 2-dimethyl-3-hydroxy-methyl-cyclopropane-cis-(2-methyl)-propan-2-ol of formula 1.



(also referred to as the diol) which comprises treating oxa-3-norcaran-2-one of formula VII.



(also referred to as the  $\delta$  — lactone) with methyl magnesium halide (where halide = Cl, Br, or I; Grignard reagent) and hydrolysing the reaction mixture (the magnesium halide derivative) with aqueous sulphuric acid or hydrochloric acid or with saturated aqueous ammonium chloride solution to give the diol of formula 1 of the accompanying drawing.

CLASS 32F*d*.

144360.

Int. Cl. C07d 7/00.

A PROCESS FOR THE PREPARATION OF OXA-3-NORCARAN-3-ONE.

*Applicant* : M/S. CAMPHOR & ALLIED PRODUCTS LIMITED, 133, MAHATMA GANDHI ROAD, BOMBAY-400023, MAHARASHTRA, INDIA.

*Inventors* : SHRI RAVI SOBTI & SHRI SUKH DEV.

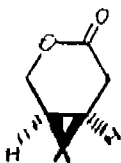
Application No. 361/Bom/77 filed December 23, 1977.

Division of Application No. 89/Bom/1976 filed March 11, 1976.

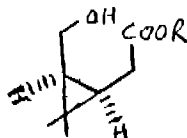
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office, Bombay Branch.

## 6 Claims.

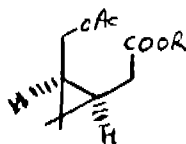
A process for the preparation of oxa-3-norcaran-2-one also referred to as the  $\delta$  — lactone) of the formula 1.



which comprises preparing hydroxy ester of formula VIII.



(where R=alkyl group) from alkyl or aryl 2, 2-dimethyl-3-acetoxy-methyl-cyclopropane-cis-1-acetate (also referred to as the acetate ester) of formula V.



by ester exchange reaction with an alcohol containing 1 to 4 carbonatoms in the presence of a catalyst such as herein described, followed by lactonisation of the said hydroxy ester of formula VIII of the accompanying drawing (where R=alkyl group) under reduced pressure and heating as herein described to give the  $\delta$  — lactone of formula 1 of the accompanying drawing.

CLASS 206-K.

144361.

Int. Cl. H01j 31/14.

PUSHBUTTON DEVICE FOR MECHANICAL PRESELECTION TUNING.

*Applicant* : N. V. PHILLIPS GLOEILAMPENFABRIEK, AT EMMASINGEL, EINDHOVEN, NETHERLANDS.

*Inventor* : LUCAS WILHELMUS MARTINUS SCHILVEN.

Application No. 39/Cal/75 filed January 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A pushbutton device for mechanical preselection tuning in radio receivers, comprising a mainly rectangular adjusting member which is rotatable about its longitudinal axis and which is coupled to the tuning means of the receiver and which can be driven, by way of a slip coupling by a tuning knob and, moreover, directly by co-operating with preselection discs which are adjustably and fixably provided on the slide rods of the pushbuttons, the adjusting member and the slip coupling constituting an elongate unit which is rotatable as one assembly and which is journaled in the frame of the receiver near its two ends, characterized in that the rotatable unit (43, 49) consists of two portions which are separated by the slip coupling each portion being supported in one of the two bearings (63 and 65).

CLASS 98-G.

144362.

Int. Cl. F28f 3/00.

METHOD OF MANUFACTURING A ROTOR ASSEMBLY.

*Applicant* : SVENSKA ROTOR MASKINER AKTIEBOLAG, OF P.O. BOX. 15085, S-104 65, STOCKHOLM, SWEDEN.

*Inventors* : HERMANN EDWARD KURSCHNER & HARLAN EUGENE FINNEMORE.

Application No. 46/Cal/75 filed January 8, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

The method of constructing a rotor for a rotary regenerative heat exchanger comprising the steps of rotatably supporting a horizontally disposed rotor post on a pair of spaced-apart support bearings, pivotally connecting a first sector-shaped element basket to the rotor post intermediate the support bearings, permitting the rotor post with attached element mass to rotate in said bearings because of the imbalance thereof until it attains a state of equilibrium, pivotally attaching a second sector-shaped basket of heat absorbent element to the rotor post permitting the rotor post to rotate in said bearings because of the imbalance thereof until a new state of equilibrium is achieved, alternately connecting other baskets of element to said rotor and then permitting them to rotate with the rotor post to attain equilibrium until the rotor comprises an annular body, and connecting the radial outer ends of the sector-shaped baskets to one another to comprise an integral element mass that extends concentrically about and is pivotally attached to the rotor post.

CLASS 24-D, &amp; 158-D.

144363.

Int. Cl. B61h 13/32.

AN AUTOMATIC LOAD CONTROLLED COMPRESSED AIR BRAKE SYSTEM.

*Applicant* : WERKZEUGMASCHINENFABRIK OERLIKON-BUHRLE AG, BIRCHSTRASSE 155, 8050 ZURICH, SWITZERLAND.

*Inventor* : WALTER MULLER.

Application No. 119/Cal/75 filed January 21, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A pressure transformation unit for an automatic load controlled compressed air brake system in railway vehicles comprising :

—a balance beam which fulcrums on a displaceable mount, one arm of said balance beam bearing on the piston rod of a first piston subjected to a control pressure from the cylinder of the air brake,

—the other arm of said balance beam bearing on the piston rod of a second piston controlling a brake valve, a change over valve having a piston loaded in one direction by the control pressure or by the pressure in a brake pipe against the resistance of a spring, whereby when the control pressure is low the change-over valve is closed and the transmission ratio is low and when the control pressure is high, the change-over valve is open and the transmission ratio is high.

CLASS 14D,

144364.

Int. Cl. B01k 3/02.

ELECTROLYTIC CELLS WITHOUT DIAPHRAGMS.

*Applicant* : RHONE-POULENC INDUSTRIES, OF 22 AVENUE MONTAIGNE, 75 PARIS (8 EME) FRANCE.

*Inventors* : DANIEL FOURNIER & HUGUES BOURGEOIS.

Application No. 405/Cal/76 filed March 5, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 27 Claims.

An electrolytic cell without a diaphragm, the cell comprising an anode unit including a set of parallel anodes and a cathode unit including a set of parallel cathodes, said units being arranged so that the anodes are accommodated in spaces, defined between two cathode surfaces to keep the inter-polar distance constant, wherein the anodes and cathodes are mounted on substantially vertical anode and cathode supports, respectively; an open space is provided above the anode and cathode units; the cathodes include perforated elements, the perforations comprising a sufficient proportion of the surface area of the element to let out gases contained in the inter-polar space, one surface of a perforated element faces towards an anode surface; the other surface of the perforated element faces towards another cathode surface so as to define a cathode space in which products of anode and cathode reactions can react together; and the cathodes are provided with openings at least at the top so as to make the cathode space communicate with the open space provided above the anode and cathode units and so as to let out gaseous products contained in the cathode space.

CLASS 121 &amp; 144A.

144365

Int. Cl. D21h 5/00.

A METHOD FOR MAKING OF LUMINESCENT TRANSFER PAPER.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

*Inventors* : CHITTARI VENKATA SURYANARAYANA, (2) MOHAMMED IFTIKHAR AHMED SIDDIQUI, (3) NAGAMONY RAJARAM, (4) KANNAM KUMARATH GOPINATHAN, (5) RAMAYYER LAKSHMINARAYANAN, & MISS ALICE KURLAN.

Application No. 1552/Cal/75 filed August 8, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims. No drawing.

A method for making luminescent transfer paper for preparing invisible copies of the writing which comprises coating a paper sheet with successive layers of grease, wax, a luminescent substance which is substantially invisible in ordinary light, drying the paper after each coating operation subjecting the same to a mild pressure to stabilise the coating using a roller and giving a final coating of grease.

CLASS 32F.b.

144366.

Int. Cl. C07f 3/02; 3/04.

METHOD FOR THE PREPARATION OF ORGANIC DOUBLE SALTS.

*Applicant* : INTREPRINDEREA DE MEDICAMENTE BUCURESTI, BLVD. TON SULEA NO. 246, BUCHAREST, ROMANIA.

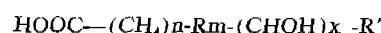
*Inventors* : VASILE GEORGESON, (2) CONSTANTIN PLORESON, & MARIA DASCALITA.

Application No. 1379/Cal/76 filed August 3, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

Process for the preparation of organic double salts such as magnesium or magnesium-calcium salts of organic acids having the general formula



wherein n is between 0 and 2, Rm is -CO or -CONH- or CH<sub>2</sub>,  
<sub>1x</sub>  
 NH<sub>2</sub>

is between 0 and 4, R' is a lower alkyl group having 1 to 4 carbon atoms or -COOH or -CH<sub>2</sub>OH or -CH<sub>2</sub>OH-C(CA<sub>3</sub>)<sub>2</sub>, characterized in that each of the individual component such as magnesium salt or magnesium and calcium salt is dissolved separately in water in a ratio of 2 to 7 parts of water to 1 part of salt by weight, then mixed at a temperature of from 20°C to 60°C for 30 minutes to 2 hours, and the product is separated from the solution by atomizing or precipitation with organic solvents, such as alcohol or acetone and in the obtained organic double salts the molar ratio between the two salts is from 0.5 to 1 : 1 to 0.5.

CLASS 32F.a.

144367.

Int. Cl. C07c 49/30.

PROCESS FOR PREPARING METHYLCYCLOHEXANONE BY HYDROGENATION OF ORESOLS.

*Applicant* : INVENTA AG FUR FORSCHUNG AND PATENTVERWERTUNG, ZURICH, STAMPFENBACHSTRASSE 38, ZURICH 6, SWITZERLAND.

*Inventor* : RICHARD SAILER.

Application No. 143/Cal/77 filed February 1, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims. No drawings.

Process for preparing methylcyclohexanones like 3-methylcyclohexanone, 4-methylcyclohexanone, 2-methylcyclohexanone or a mixture of them by hydrogenation of Cresols like m-Cresol, p-Cresol, O-Cresol respectively or a mixture of them, in the presence of a platinum metal catalyst, characterised in

that alkaline earth carbonate like Calcium Carbonate prepared by mixing 5-20% solutions of Calcium Chloride and sodium Carbonate at 50—90°C., admixed if necessary with alkaline earth hydrogen phosphate, is employed as catalyst support followed by passing the mixture of hydrogen and a Cresol vapour corresponding to a molar ratio from 3 : 1 to 50 : 1 over the said catalyst at a heating temperature from 110-220°C.

CLASS 14D<sub>a</sub>. 144368.

Int. Cl. H01n 13/08.

HEAT TREATMENT OF NiO<sub>x</sub> UTILIZED PRESSED NICKEL ELECTRODES.

*Applicant* : YARDNEY ELECTRIC CORPORATION, OF 82 MECHANIC STREET, PAWCATUCK, CONNECTICUT, UNITED STATES OF AMERICA.

*Inventor* : RONALD GEORGE GUNTHER.

Application No. 1264/Cal/77 filed August 16, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

In the manufacture of a pressed nickel electrode comprising an admixture of the berthollide NiO<sub>x</sub> as the active electrode material with or without a cobalt-containing compound present in the admixture, a binder therefor, and a current collector, with said admixture pressed into said current collector, the improvement which comprises the step of;

heating said NiO<sub>x</sub> at a temperature between 125°C. and 175°C. for at least 15 minutes.

CLASS 69Q & 98H. 144369.

Int. Cl. H01c 7/04; H01h 37/00.

IMPROVEMENTS IN OR RELATING TO TEMPERATURE MONITORING AND CONTROL DEVICE BY SENSING THE HEAT.

*Applicant* : BHARAT HEAVY ELECTRICALS LIMITED, AT 7TH FLOOR, ANSAL BHAVAN, 16-KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA.

*Inventor* : PRAMOD AGRAWAL.

Application No. 867/Cal/76 filed May 18, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

2 Claims.

A temperature monitoring and control devices by sensing the heat in a machine as in an electrical generator motor or the like said means being connected between the load and the machine and including a circuit breaker connected normally between said load and said machine, the release coil of said circuit breaker adapted to be connected to the power source through a normally closed contact of an electromagnet relay the coil of said relay being connected to the power source through a heat sensing element and a semi-conductor device such that in the instance of a fault, the semi-conductor device is in a conducting or triggered state where the coil of the electromagnet relay is energized and the circuit breaker disconnects the load from the machine.

CLASS 32F<sub>d</sub>. 144370.

Int. Cl. C07c 49/74.

ISOLATION OF MALE ANTIFERTILITY DRUG EMBELINE FROM A PLANT SOURCE.

*Applicant & Inventors* : DR. VISHNU PRAKASH DIXIT, AND DR. PUSHPA KHAMANA, DEPARTMENT OF ZOOLOGY AND DEPARTMENT OF BOTANY RESPECTIVELY : UNIVERSITY OF RAJASTHAN, JAIPUR-302004, INDIA.

Application No. 133/Del/77 filed August 13, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims. No drawing.

A process of isolation of embeline (2-5-dihydroxy 3, undecyl p-benzoquinone) which comprises the extraction from berries collected from the field from *Embelia ribes* (VIDANGA in Sanskrit) with hot ethanol and running the extract in silica gel G column in n-butanol, acetic acid and water which are in the ratio of (4:1:5) and crystallizing with cold ethanol and then purifying the crude crystals by thin layer chromatography.

CLASS 154-H. 144371.

Int. Cl. B41f 9/02; 11/00.

IMPROVEMENTS IN AND RELATING TO PRINTING APPARATUS, A METHOD FOR THE PRODUCTION OF A PRINTED SUBSTRATE USING THE SAME AND A SUBSTRATE SO PRODUCED.

*Applicant* : ENCOLINE (PROCESS) LIMITED, OF 14, LIVERPOOL ROAD, SLOUGH, BUCKINGHAMSHIRE, ENGLAND.

*Inventor* : HAROLD FREDRICK FARROW AND BERNARD BOOTH RACKSTRAW.

Application No. 238/Cal/75 filed February 10, 1975.

Convention date February 20, 1974 (7816/74) U.K.

Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

Intaglio printing plate apparatus comprising in combination two intaglio die plates one for attachment to the top platen of a printing press and one for attachment to the lower or bottom platen with the recessed intaglio designs of the two plates, facing each other, that one of the plates which is to be attached to the top platen being formed with passages passing through its thickness to the recessed intaglio design, the other plate being formed with air bleed holes leading from the recessed design to atmosphere.

CLASS 104-G. 144372

Int. Cl. A01g 23/10.

NON-AQUEOUS COMPOSITION FOR STIMULATING THE YIELD OF RUBBER LATEX FROM HEVEA BRASILIENSIS.

*Applicant* : THE BOARD OF THE RUBBER RESEARCH INSTITUTE OF MALAYASIA, OF 260 JALAN AMPANG, P.O. BOX 150, KUALA-LUMPUR, MALAYSIA.

*Inventors* : YEO CHOON SENG.

Application No. 1872/Cal/75 filed September 30, 1975.

Convention date October 2, 1974 (42837/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims. No drawings.

A non-aqueous composition for stimulating the yield of rubber latex from *Hevea brasiliensis* comprising a yield stimulant of the kind which releases ethylene in contact with water in a carrier comprising palm kernel oil or coconut oil.

CLASS 126-B. 144373.

Int. Cl. G01v 11/00; G01w 1/00.

Apparatus for AIRBORNE PROSPECTING FOR MINERALS.

*Applicant* : BARRINGER RESEARCH LIMITED, OF 304, CARLINGVIEW, DRIVE REXDALE ONTARIO, CANADA.

*Inventor* : ANTHONY RENE BARRINGER.

7 Claims.

Application No. 2166/Cal/75 filed November 12, 1975.

Convention date November 23, 1974 (50849/74) U.K.

Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims.

In an apparatus for airborne prospecting for minerals, hydrocarbon deposits and the like, including means for collecting samples of atmospheric particulates, means for depositing said particulates on an elongated movable strip and means for analyzing said stored particulates for content or predetermined elements or compounds the improvement wherein there is provided means for deriving an electronic signal which is responsive in amplitude to at least one of the following parameters of the atmosphere near the place at which said particulates were collected : temperature humidity vertical acceleration particulate density conductivity radon concentration and vertical atmospheric electric potential gradient and wherein means controllable by said signal is provided for respectively directing particulates collected during periods of updrafts to positions on said strip which respectively are spaced apart from the positions at which particulates which were not collected during updrafts are deposited.

CLASS 53-C.

144374

Int. Cl. B62k 17/00; B62m 25/00.

ELECTRICALLY ASSISTED CYCLE AND GEAR SELECTOR FOR THE SAME.

*Applicant* : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET, BIRMINGHAM B19 2XF, ENGLAND.

*Inventor* : PETER VATSON LEIGHTON AND CHARLES PATRICK DUNCAN DAVIDSON.

Application No. 53/Cal/76 filed January 8, 1976.

Convention date January 21, 1975 (2630/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims.

A gear selector for an electrically assisted cycle utilising a gear mechanism of the kind which required rotation of the mechanism input member to cease during a gear change, the selector including a body arranged to be secured to the frame of the cycle, a manually movable lever pivotally mounted on the body and arranged to be connected to the gear mechanism of the cycle whereby movement of the lever relative to the body causes operation and output members of the mechanism, a cam movable with the lever relative to the body, a cam follower engaging said cam and an electrical switch carried by the body and operated by movement of said cam follower, said cam being such that said cam follower is moved thereby to operate said switch during any movement of the lever to effect a change in gear ratio in said mechanism, said cam further being such that the switch is returned to its initial operative condition after the movement which effects the gear change.

CLASS 157-D<sub>a</sub>.

144375.

Int. Cl. E01b 27/12.

MACHINE FOR TAMPING BALLAST BENEATH THE SLEEPERS OF A RAILWAY TRACK.

*Applicant* : FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIEGESELLSCHAFT M.B.H. OF JOHANNESGASSE 3, VIENNA 1, AUSTRIA.

*Inventor* : ING. JOSEF THEURER.

Application No. 2284/Cal/76 filed December 29, 1976.

Appropriate office for opposition proceedings (Rule, 4, Patents Rules, 1972) Patent Office, Calcutta.

A machine for tamping ballast beneath the sleepers of a railway track, including at least one tamping unit which is mounted on the machine frame for vertical adjustment by means of a hydraulic cylinder and piston drive and which comprises tamping tools mounted in pairs on a carrier for adjustment relative to one another and for penetration into the ballast bed along the longitudinal sides of the sleepers, and also vibration and adjustment drives for these tamping tools consisting of a tool holder and tamping tines, characterised in that the tamping unit comprises two substantially forked or — shaped tamping tool holders in the form of a rigid unit which are pivotal relative to one another and whose upwardly extending pivotal arms situated substantially above the rail are mounted on the tamping tool carrier and are connected to the vibration and adjustment drives mounted on the carrier, and of which the side arms extending downwards transversely of the axis of the track are designed to receive the tines adapted to penetrate into the ballast bed on both sides of the rail.

CLASS 157-D<sub>a</sub>.

144376.

Int. Cl. E01b 27/12.

TAMPING TOOL FOR TRACK TAMPING MACHINES.

*Applicant* : FRANZ PLASSER BAHNBAUMASCHINEN INDUSTRIEGESELLSCHAFT, M.B.H. OF JOHANNESGASSE 3, VIENNA 1, AUSTRIA.

*Inventor* : ING. JOSEF THEURER.

Application No. 2285/Cal/76 filed December 29, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims.

A tamping tool for track tamping machines for tamping the ballast beneath the sleepers of a railway track, including a holder and the tamping tine insertable therein, more especially for arrangement and relative adjustment in pairs on a carrier of a vertically adjustable tamping unit with vibration and feed adjustment drives, characterised in that the tamping tool (1,17) consisting of a tool holder (4) and tamping tine (5, 22) is substantially forked and in the form of a rigid unit and in that the holder comprises an upwardly extending pivotal arm (6, 18) intended to be centrally arranged in the vertical longitudinal plane of the rail with two side arms (7) extending downwards transversely of the track axis for accommodating the tamping tines (5, 22) penetrating into the ballast bed both on the left and also on the right of the corresponding rail.

CLASS 128-L.

144377.

Int. Cl. A61m 15/00.

AN INHALATION DEVICE FOR ADMINISTERING MEDICAMENTS.

*Applicant* : ALLEN & HANBURYS LIMITED, OF THREE COLTS LANE, BETHNAL GREEN, LONDON E2, ENGLAND.

*Inventor* : MICHAEL JAMES.

Application No. 186/Cal/77 filed February 9, 1977.

Convention date February 11, 1976 (05353/76) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

An inhalation device for administering to a patient medicaments contained in a capsule the said device comprising a chamber arranged to receive a capsule containing a powdered medicament, at least one air inlet aperture leading into the chamber and a nozzle through which air from the chamber can be inhaled, wherein a magazine is slidable and rotatable in the chamber and has a longitudinal capsule loading receptacle arranged so that a capsule inserted therein will have an

end portion projecting from the receptacle into the chamber a knife fixed in the chamber in such a position that rotation of the magazine with respect to the chamber will cause the projecting of a capsule located in the receptacle to engage a cutting edge of the knife thereby to sever the projecting portion of the capsule from the remainder of the capsule and a capsule ejecting member is arranged inside the chamber in a position such that it will enter the capsule loading receptacle when such receptacle has first been registered with the member by appropriate rotation of the magazine with respect to the chamber and then by sliding the magazine with respect to the chamber thereby to eject the remaining part of the capsule from the loading receptacle into the chamber so that the contents of the capsule may be inhaled through the nozzle, and means for preventing the parts of the severed capsule leaving the chamber when the patient inhales through the nozzle.

CLASS 11C, &amp; 82.

144378.

Int. Cl. A01k 41/00.

## A HATCHERY FOR THE HATCHING OF FISH EGGS.

*Applicant* : TARAPOREVALA MARINE BIOLOGICAL RESEARCH STATION, (AN AFFILIATE OF KONKAN KRISHI VIDYA PEETH) OF NETAJI SUBHASH ROAD, BOMBAY-400 002, MAHARASHTRA, INDIA.

*Inventors* : GIRISH ANANTACHARYA SHIRGUR.

Application No. 154/Bom/76 filed May 17, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims.

A hatchery for the hatching of fish eggs, comprising a bin having an afferent pipe attached to its undersurface having a control cock an afferent pipe attached at the top of the said bin for evacuation of water therefrom a perforated metal container placed on a stand within the said bin a perforated plunger—lid provided with loops on its top surface being inserted into the said perforated container by means of wired inserted through perforations in the said perforated container and fastened in the said loops on the top surface of the said perforated plunger-lid; the arrangement being such that the evacuation flow rate of water in the bin and the bin volume containing the eggs are so adjusted by the control cock and the perforated plunger-lid respectively that the eggs are hatched.

CLASS 44 &amp; 129-P.

144379.

Int. Cl. B23b 31/10.

## A CHUCKING DEVICE FOR A WORKPIECE TO BE MACHINED.

*Applicant* : CITIZEN WATCH CO., LTD. OF 1-9-18 NISHI-SHINJUKO, SHINKUJU-KU, TOKYO, JAPAN.

*Inventor* : YOSHIO TOKUNAGA.

Application No. 1971/Cal/75 filed October 10, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

A chucking device for a workpiece to be machined which is held on chucking plate with a head which is adjustably mounted in a carrier, carrier, characterised in that the chucking plate (9) for the workpiece (10) to be machined is mounted upon a slide (7) which is displaceable or rotatable relative to the head (2) during the machining operation by means of a rotatably mounted hollow shaft (4) passing centrally through the head (2) and in that an ejector rod (11) is provided passing centrally through the hollow shaft (4).

CLASS 208-B.

144380.

Int. Cl. B60c 21/00.

## IMPROVEMENTS IN OR RELATING TO RETREADING OF TYRES.

*Applicant* : NATIONAL-STANDARD DUNCAL LIMITED, OF 31 NETAJI SUBHAS ROAD, CITY OF CALCUTTA, STATE OF WEST BENGAL, INDIA.

*Inventor* : HARESHWAR SARAN MATHUR.

Application No. 1461/Cal/76 filed August 11, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

A method of retreading worn out or partially worn out tyres of automotive vehicles such as motor cars, trucks lorries, motor cycles, motor scooters and the like vehicles, comprising the steps of inspecting the tyre by spreading its beads and tread surface on a tyre spreader for ascertained any flaw in the under-tread fabric, beads or sides, mounting the selected flawless tyre on a buffer spreader, expanding the tyre to its normal form similar to that in its fully inflated state, guffing the tread surface applying tread forming material on the buffed surface, drying the said material, mounting the tyre in a monospace mould having a tread pattern and size corresponding to the tyre, inserting an air bag and curing rim within the tyre, fitting the mould in a mould station, inflating the air bag, heating the mould to a preset temperature for a predetermined time interval, deflating the air bag, removing the mould from the mould station, removing the air bag and the curing rim, removing the retreaded tyre from the mould and trimming off any excess out-flow of rubber.

CLASS 39F.

144381.

Int. Cl. C01f 7/00.

## A METHOD OF PRODUCING AN IMPROVED UNIFORMLY FINE GRAINED ALUMINA CARBIDE MATERIAL.

*Applicant* : THE BABCOCK & WILCOX COMPANY, AT 161 EAST 42ND STREET, NEW YORK, NEW YORK-10017, UNITED STATES OF AMERICA.

*Inventor* : LARRY JOSEPH FERRELL.

Application No. 304/Cal/74 filed February 13, 1974.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

A method for producing an improved uniformly fine grained alumina carbide material having improved physical characteristics like transverse rupture strength, Rockwell hardness and Knoop hardness comprising the steps of ball milling a carbide powder, mixing alumina powder and said carbide powder, compressing said mixed powders, heating said compressed powders at a first rate of 400° to 1000°C per minute, applying a constant physical pressure selected between 500 to 1000 psi to said powders while the powders are being heated at said rate, applying an increased physical pressure to said powders upon reaching an onset of powder shrinkage to attain a maximum hot process pressure, not exceeding 9500 pounds per square inch, heating said powders at a lower rate than said first rate to attain a maximum temperature not exceeding 1800°C while applying said increased pressure, maintaining said maximum hot process pressure and said maximum temperature for two to six minutes.

CLASS 61E.

144382.

Int. Cl.-B01d 53/00.

## METHOD OF AND DEVICE FOR DRYING COMPRESSED GASES, ESPECIALLY COMPRESSED AIR FOR BRAKE SYSTEMS IN MOTOR VEHICLES.

*Applicant* : SVENSKA LUFTKOMPRESSOR AB, OF ASPGATAN 10, NORRAHAMMAR, SWEDEN.

*Inventor* : LARS ANDERS GUSTAF GYLLINDER.

Application No. 932/Cal/75 filed May 9, 1975.

Convention date May 14, 1974/(21169/74) U.K.

6 Claims.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

A method of drying compressed gases, for example compressed air for a motor vehicle braking system, comprising passing the compressed gases through a first treatment chamber containing a regenerable drying medium, diverting a minor part such as herein described of the dried gas to pass through a second treatment chamber for regenerating drying medium therein, the two chambers being alternatively connected to a supply, characterized in that when said first chamber is disconnected from the supply, it causes the whole of the dried gas from the outlet of the second chamber to pass through the first chamber to effect regeneration of the drying medium therein.

CLASS 126B &amp; D.

144383.

Int. Cl.-G01c 17/00.

## DIP ANGLE DATA TRANSMITTER.

*Applicant* : VSESOJUZYNY NAUCHNO-ISSLEDOVATELSKY INSTITUT ZEMLEROINOGO MASHIN-OSTROENIA, OF LENINGRAD, I KRASNOARMEISKAYA ULITS. II. USSR.

*Inventors* : EDUARD NIKOLAEVICH KUZIN, (2) MIKHAIL LEBOVICH FAJNZILBER, (3) NADEZHDA BORISOVNA IVANOVA, (4) JURY STEPANOVICH KOZLOV, (5) VLADIMIR FEDOROVICH KORELIN, (6) NIKOLAI VASILIEVICH DMITRIEVSKY, (7) SAVATY SOLOMONOVICH SCHEDROVITSKY (8) VITALY IOSIFOVICH BERKMAN AND ANATOLY BORISOVICH SYRKOV.

Application No. 170/Cal/76 filed January 30, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

A dip angle data transmitter having a housing which accommodates viscous fluid and the body of inertia and a pendulum whose axis is arranged in the casing which is damped by the viscous friction forces proportional to the speed of its rotation relative to the body of inertia, characterized by that the pendulum, is made laminated being disposed in the casing so that the distance between the surfaces of the pendulum's plates and the inner surface of the casing is found from the following formula :

$$x > \frac{j \omega}{g} \quad \text{Where;}$$

$x$  is the distance between the surfaces of the pendulum's plates and the inner surface of the casing for the two given points;  $j$  is the kinematic viscosity of the viscous fluid at a minimum working temperature;

$\omega$  is the natural frequency of the transmitter's oscillations, and  $g$  is the gravity acceleration, the viscous fluid proper serving as a body of inertia.

CLASS 151C.

144384.

Int. Cl.-F161 11/08.

## PRESSURE HOSE COMPRISING SEVERAL LAYERS OF REINFORCING STRENGTHENERS.

*Applicant* : AEROQUIP GMBH., OF 3510 HANN. MUNDEN, AUEFELE 1, WEST GERMANY.

*Inventors* : HORST HILDEBRANDT AND EDUARD LEICHSENRING.

Application No. 922/Cal/75 filed May 8, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A pressure resistant hose comprising an inner lining and an outer cover both made of resiliently flexible materials, and a reinforcement interposed between the lining and the cover and consisting of sleeves defined by elongate reinforcement elements helically wound around the inner lining, the angle of all of the windings to the longitudinal axis of the hose being identical, but the windings not all being of the same hand, the construction being such that the resistance to disruption of each sleeve under radial forces is substantially equal to that of an adjacent sleeve, the windings being progressively stronger in tension outwardly of the inner lining by variation in the mechanical properties of the material of the reinforcement elements and/or the thickness of the reinforcement elements and/or the number of reinforcement elements in the windings.

CLASS 32E.

144385.

Int. Cl.-C08f 3/02.

## PROCESS FOR THE PREPARATION OF LOW AND MEDIUM DENSITY ETHYLENE POLYMER IN FLUID BED REACTOR.

*Applicant* : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK, 10017, UNITED STATES OF AMERICA.

*Inventors* : ISAAC JACOB LEVINE AND FREDERICK JOHN KAROL.

Application No. 428/Cal/76 filed March 10, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A process for producing solid ethylene polymers having a density of less than 0.941 and a melt index of  $> 0.0$  to at least about 2.0 under relatively low pressure conditions which comprises copolymerizing ethylene with sufficient quantities of  $C_3$  to  $C_6$   $\alpha$ -olefin monomer to provide the desired density in the copolymer product

in a fluid bed process at a temperature of about 30 to 105°C.; under a pressure of less than about 1000 psi, and under a Gmf of about 1.5 to 10

by contacting the monomers with fluidized particles of a supported catalyst wherein said particles have an average diameter of about 50 to 200 microns

said supported catalyst having been activated in air or oxygen at a temperature of about 300 to 900°C., and comprising, based on the total weight of the support and the catalyst,

about 0.05 to 3.0 weight percent of chromium, about 1.5 to 9.0 weight percent of titanium, and

$> 0.0$  to about 2.5 weight percent of fluorine, said chromium and said titanium being in the form of oxides after said activation.

CLASS 32F &amp; 39C.

144386.

Int. Cl.-C07c 127/06, C01c 1/12.

## FLEXIBLE INTEGRATED METHOD FOR THE PRODUCTION OF AMMONIA AND UREA.

*Applicant* : SNAMPROGETTI S.P.A., OF CORSO VENEZIA 16, MILAN, ITALY.

*Inventor* : GIORGIO PAGANI.

Application No. 534/Cal/76 filed March 27, 1976.

## 2 Claims.

An integrated flexible method for the production of ammonia and urea in a system including an ammonium carbamate reactor, a urea synthesis reactor, an ammonia synthesis reactor and an ammonia absorber for producer a concentrated aqueous solution of ammonia, which comprises feeding a gaseous stream consisting essentially of  $CO_2$ ,  $H_2$  and  $N_2$  to the system so that  $CO_2$ ,  $H_2$  and  $N_2$  are sent to the ammonium carbamate reactor and  $H_2$  and  $N_2$  to the system so that  $CO_2$ ,  $H_2$  and  $N_2$  are sent to the ammonia carbamate reactor and  $H_2$  and  $N_2$  are then



sent to the ammonia synthesis reactor, feeding ammonia from the ammonia synthesis reactor to the ammonia absorber, feeding a portion of the stream of concentrated aqueous solution of ammonia from the ammonia absorber to the ammonium carbamate reactor so that ammonium carbamate is produced, recovering liquid ammonia from the balance of said stream from the ammonia absorber, feeding ammonium carbamate from the carbamate reactor to the urea reactor so that urea is produced, and recovering urea from said urea reactor, wherein the improvement comprises regulating the ammonia/urea ratio recovered from the system by diverting a portion of the gaseous stream fed to the system to a complementary decarbonation area, removing a predetermined quantity of  $\text{CO}_2$  from said portion, then combining the decarbonated portion of the feed stream with the undercarbonated balance of the feed stream and supplying said combined stream to the ammonium carbamate reactor.

CLASS 32F.a.

144387

Int. Cl.-C07c 143/24.

# PROCESS FOR PURIFYING GASES CONTAINING HYDROGEN SULPHIDE BY MODIFIED STRETFOND PROCESS.

*Applicant* : AMERICA COLOR & CHEMICAL CORPORATION, AT 11400 WESTINGHOUSE BOULEVARD, CHARLOTTE, NORTH CAROLINA 28201, UNITED STATES OF AMERICA.

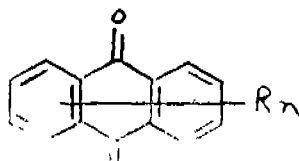
*Inventors* : EDGAR EARL RENFREW AND DOMINIC ANDREW ZANELLA.

Application No. 1593/Cal/76 filed August 30, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

In a Stretford process wherein a gas containing hydrogen sulfide is contacted with an aqueous alkaline solution of salts of anthraquinone disulfonic acids and of vanadium to oxidize the hydrogen sulfide to form sulfur which is thereafter removed from said solution by filtration and the solution regenerated, the improvement comprising employing in said aqueous alkaline solution, salts of a mixture of disulfanthraquinonecarboxylic acids prepared by the direct sulfonation of an anthraquinone of the formula shown in the accompanying drawing.



wherein  $n$  is an integer of from 1 to 4 and each substituent  $R$ , which may be the same or different, is (a) an alkyl group containing from 1 to 4 carbon atoms or (b) a chlorine atom provided that (1) at least one of the substituents is an alkyl group containing from 1 to 4 carbon atoms; (2) there are no more than three substituents in one of the terminal rings whenever the other terminal ring is unsubstituted; and (3) there are no more than two substituents in the terminal rings whenever both terminal rings contain substituents.

CLASS 32A.

144388.

Int. Cl.-C09b 29/06.

# PROCESS FOR THE PREPARATION OF WATER-INSOLUBLE YELLOW MONOAZO DYES.

*Applicant* : MONTEDISON S.P.A., OF 31, FORO BUONAPARTE, MILAN, ITALY.

*Inventors* : RUGGERO BATTISTI, GIOACCHINO BOFFA NICOLA MAZZAFERRO, ANGELO MANGINI AND ANTONIO TUNDO.

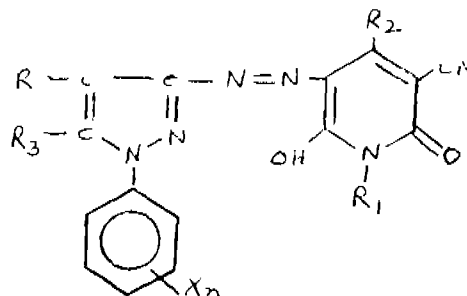
Application No. 939/Cal/77 filed June 23, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3—47GI/78

## 2 Claims.

Process for preparing water-insoluble yellow monoazo dyes having the general formula (I).



Wherein

$R = \text{H, CH}_3$

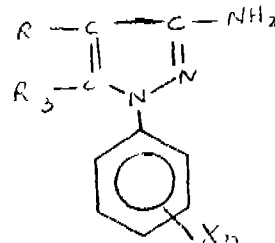
$R_1 = \text{CH}_3, \text{C}_2\text{H}_5$ ;

$R_2 = \text{CH}_3, \text{C}_2\text{H}_5, \text{C}_3\text{H}_7$ ;

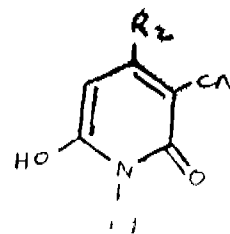
$R_3 = \text{H, phenyl}$ ;

$X = \text{H, Br, Cl}$ ; alkyl, alkoxyl groups and carboxyalkyl groups with up to 4 carbon atoms;  $\text{CF}_3$ ,  $\text{CN}$ ;

$n = 1, 2, 3$ , characterized in that they are obtained by diazotization, at a temperature ranging from about 0 to  $50^\circ\text{C}$ , of 1-phenyl-3-amino-pyrazoles of formula (II).



and by successive coupling in a basic medium with N-alkyl-6-hydroxy-4-alkyl-3-cyano-2-pyridones of formula (III).



wherein  $R, R_1, R_2, R_3, X$ , and " $n$ " have the same meanings as specified above, at a temperature comprised between about 0 and  $10^\circ\text{C}$ .

CLASS 32A1.

144389.

Int. Cl.-C09b 62/00.

# A PROCESS FOR THE PREPARATION OF LIQUID AQUEOUS COMPOSITIONS OF FIBER-REACTIVE AZO DYES

*Applicant* : HOECHST AKTIENGESellschaft, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY

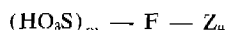
*Inventors* : KONARD OPTIZ, JOSEF LANDLFR AND ERHARD WOLFEL.

Application No. 154/Cal/76 filed January 28, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

A process for the preparation of a liquid aqueous composition of fiber-reactive azo dyestuffs, which 4 to 45% by weight of one or more dyestuffs which in the free acid form have the formula (I).



in which F is the chromophoric rest of a mono-, di- or tri-azo dyestuff or of a Cu, Cr, Co, Ni or Fe-metal complex compound thereof, Z is a fiber-reactive group, m is an integer of from 1 to 8 and n is an integer of from 1 to 3, and which contains a buffer substance and has a pH-value of from 3 to 7, which comprises reacting in an aqueous or aqueous-organic medium a stoichiometrical amount of a diazotizable amine and of a coupling component with a stoichiometrical amount of a nitrite, at least one of the two components, namely the amine and coupling component, contain at least one free acid group, and a buffer substance and/or an acid-binding inorganic compound is added in the course of or after the reaction, and the solution or dispersion of the dyestuff prepared of the formula (I) is subsequently diluted with water or concentrated by partially removing water or the aqueous-organic medium until to a concentration of 5 to 45% by weight of the composition.

CLASS 85F. 144390.

Int. Cl.-F23k 3/00.

## A MECHANISED CHAIN GRATE STOKER.

*Applicant* : THE HOOGHLY DOCKING & ENGINEERING CO. LTD., OF 12, MISSION ROW, CALCUTTA-700001, WEST BENGAL, INDIA.

*Inventor* : SUHAS MUKHERJEE AND AMITABHA SEN.

Application No. 671/Cal/76 filed April 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

A mechanised chain grate stoker suitable for coal or other fuels of small size, comprising an endless chain grate movably mounted on support frames and consisting of pin-joined links so shaped as to form upwardly converging openings between adjacent links; a variable speed drive means for driving said endless chain grate; a fuel hopper with a mechanically operated fuel door for feeding said fuel onto said chain grate; and an air control device comprising an air-control plate having slotted openings slidably located below a perforated plate on which the chain grate moves, a first lever operatively connected to said air-control plate for moving the air-control plate such that the slotted openings therein move in and out of vertical alignment with the perforations of said perforated plate and means for dividing the air received from a blower into a primary air stream which can flow through said perforations and slotted openings from below the chain grate and into a secondary air stream which can flow onto said chain grate from the top.

CLASS 15C. 144391.

Int. Cl.-F16c 33/04.

## BRAKE-SHAFT BUSHES.

*Applicant & Inventor* : GORDON JOSEPH TAYLOR, OF 18 SENG STREET, GRACEVILLE, QUEENSLAND 4075, AUSTRALIA.

Applicant No. 1110/Cal/76 filed June 22, 1976.

Convention date June 24, 1975/(PC2109/75) Australia

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A shaft bush of tough, deformable material and including: a first part threaded at one end; a second annular part correspondingly threaded to engage the thread on said first part; and external inwardly-facing radial faces on said first and on said second parts; so that the length of said bush between said faces may be adjusted by relative rotation of said parts to clamp said bush tightly against a housing for said bush

CLASS 166A.

144392.

Int. Cl.-E05c 13/02.

## A BOTTOM JOINT SEAL OF A HOPPER BARGE.

*Applicant* : DEGGENDORFER WERFT UND EISENBAU G.M.B.H., OF WERFTSTR. 11, 8360 DEGGENDORF/DONAU, WEST GERMANY.

*Inventor* : DIPL-ING. GERHARD HELLMICH.

Application No. 1126/Cal/76 filed June 24, 1976.

Convention date June 9, 1976/(23768/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

A bottom joint seal of a hopper barge comprising two hopper parts pivotal with respect to each other about a longitudinal axis, said seal comprising a bearing surface, a flange which covers the bearing surface within the closure area of the hopper barge and an elastic sealing member held by means of webs between the flange and the bearing surface, said seal being situated within a recess below the bottom joint.

CLASS 32Fa.

144393.

Int. Cl.-C07c 49/00.

A PROCESS FOR PRODUCING ACETONE AND ACETALDEHYDE STARTING FROM ACETYLENE AND PROPYNE CONTAINED IN THE HYDROCARBON STREAM OBTAINABLE FROM STEAM CRACKING INSTALLATIONS.

*Applicant* : SNAMPROGETTI S.P.A., OF CORSO VENTIZIA 16, MILAN, ITALY.

*Inventors* : CARLO RESCALLI AND ANTONIO PACIFICO

Application No. 1194/Cal/76 filed July 6, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims.

A process for producing acetone and acetaldehyde starting from acetylene and propyne such as that contained in the hydrocarbon stream obtainable from steam-cracking installations for the production of ethylene and propylene, which process comprises reacting said acetylene and propyne with an alcohol in a first reaction zone in the presence of an acidic ion-exchange resin such as herein described the acidic centres of which have been substantially entirely exchanged with mercury ions and with ions of an alkali metal or alkaline earth metal, to produce an ethereal compound; separating the resulting ethereal compound by rectification from any unreacted hydrocarbon; and hydrolyzing the ethereal compound to acetone and acetaldehyde in a second reaction zone in the presence of the acidic ion-exchange resin; and separating the expected acetone and acetaldehyde by rectification.

CLASS 39-0.

144394.

Int. Cl.-C01b 33/28.

PROCESS FOR THE PREPARATION OF ALKALINE EARTH METAL ZEOLITES SUCH AS CALCIUM ZEOLITES AND POTASSIUM ZEOLITES.

*Applicant* : REGISTRAR OF JADAVPUR UNIVERSITY, (2) DR. RAM NARAYAN MUKHERJEE, PROFESSOR OF CHEMICAL ENGINEERING DEPARTMENT AND (3) TAPAN KUMAR PAL, LECTURER IN PHARMACY, ALL OF JADAVPUR UNIVERSITY, CALCUTTA-700032, WEST BENGAL, INDIA.

*Inventors* : DR. RAM NARAYAN MUKHERJEE AND TAPAN KUMAR PAL.

Application No. 1733/Cal/76 filed September 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims. No drawings.

Process for the preparation of alkaline earth metal zeolites such as potassium zeolites and Calcium from kaolinites comprising :

(i) analysing the kaolinites obtained from known source and compensating the deficiency of its ingredients such as  $\text{SiO}_2$ ,  $\text{Al}_2\text{O}_3$  by adding the same from known source.

(ii) calcining the kaolinite of step (i) by conventional method and mixing the said calcined kaolinite with 3 to 6 in sodium hydroxide solution, chilling the obtained solution at a temperature of 5 to  $10^\circ\text{C}$  heating the said chilled solution to a temperature of from 85 to  $90^\circ\text{C}$  when crystals of sodium zeolite are formed, filtering, washing and drying the so formed crystals of sodium zeolite;

(iii) treating the obtained sodium zeolite crystals of step (ii) with alkaline earth chloride solution other than sodium chloride solution at 80 to  $100^\circ\text{C}$  to obtained alkaline earth zeolites such as potassium zeolite and calcium zeolite.

CLASS 32F.

144395.

Int. Cl.-C07c 143/38, 143/56.

A PROCESS FOR THE SEPARATION AND PURIFICATION OF 4-N-ACETYLAMINO BENZENE SULPHOCHLORIDE FROM REACTION MIXTURE OF ACETANALIDE AND CHLORO SULPHONIC ACID.

*Applicant* : WAS AGCHEMIE GMBH, OF PROMENADEPLATZ 9, 8000 MUNCHEN 2, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : DR. KARL PICHL.

Application No. 237/Cal/77 filed February 18, 1977.

Convention date March 11, 1976/(9728/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

A process for separating off and purifying 4-N-acetyl aminobenzene sulphochloride, wherein a reaction mixture obtained from the reaction of acetanilide with chlorosulphonic acid and consisting of 4-N-acetylaminobenzene sulphochloride, excess chlorosulphonic acid and precipitate the 4-N-acetylaminobenzene sulphochloride, in a treatment vessel at temperatures of from  $-20^\circ$  to  $+20^\circ\text{C}$ , and the 4-N-acetylaminobenzene sulphochloride precipitated is continuously discharged from the vessel.

CLASS 136B & 150A & C & G & 151.

144396.

Int. Cl.-G16j 11/04, F16d 3/00.

PLASTICS PIPE SYSTEM.

*Applicant* : WAVIN B. V., OF 251 HANDELLAAN, ZWOLLE, THE NETHERLANDS.

*Inventor* : WARNER JAN DE PUTTER.

Application No. 405/Cal/77 filed March 21, 1977.

Convention date March 1, 1974/(9473/74) U.K.

Division of Application No. 2273/Cal/74 filed October 10, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims.

A plastics pipe system comprising a pipeline including at least a first and a second plastics pipe each provided on its inner and/or outer surface with a continuous coating of thermosetting resin adhering firmly thereto and incorporating electrically conductive particles rendering said coating electrically conductive, the coating of each plastics pipe being directly or indirectly connected electrically with means for conducting away any electric charge on the pipe line.

CLASS 68F.

144397.

Int. Cl.-G05f 1/14, 1/24, 5/00.

A VOLTAGE REGULATING SWITCHING DEVICE.

*Applicant & Inventor* : MAELIKULAM RAMAKRISHNA NARAYANAN, OF 'VISRANTH', GOLF LINKS ROAD, KOWDIAR, TRIVANDRUM, KERALA, INDIA.

Application No. 193/Mas/74 filed December 24, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 6 Claims.

A voltage regulating switching device for changing the tapping of an auto-transformer, characterised in that it consists of a pair of relays, each relay having a pair of contact sets, and further characterised in that one of a change over contact of a contact act of one relay is directly connected to the change over contact of a contact set of the other relay or to a contact of the said set of contacts of the said other relay.

CLASS 128F.

144398.

Int. Cl.-A61n 1/18.

MICROLYTIC THERAPY APPARATUS FOR LOCATING AND CURING PAIN.

*Applicant & Inventor* : PROFESSOR MOOTHIRING NARAYANAN NAMBOODIRIPAD, 31, GIRI NAGAR, COCHIN-20, KERALA STATE, INDIA AND DR. MATHEW GEORGE, ORTHOPAEDIC SURGEON "SHARON" 29/283 KARIMPURAM ROAD, KADAVANTHRA, COCHIN-20, KERALA STATE, INDIA.

Application No. 33/Mas/76 filed February 24, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 8 Claims.

Microlytic therapy apparatus for locating and curing pain comprising a device for scanning and locating the pain spot and a pulse generator producing microampere current pulses for curing the pain, the said scanning device consisting of a current control, a meter and two electrodes and the said pulse generator for curing pain consisting of a multivibrator the output of which is fed to switching transistor connected in the active output electrode of the instrument, the arrangement between the said current control device and the switching transistor being such that when the switching transistor conducts current for curing pain, the current control device controls the amplitude of the curative currents also.

CLASS 206F.

144399.

Int. Cl.-H04b 1/20.

A PORTABLE MULTIPURPOSE RADIO RECEIVER DEVICE FOR USE PARTICULARLY THOUGH NOT EXCLUSIVELY, ON VEHICLES.

*Applicant & Inventor* : SRINIVASA VENKATESWARA PRABHAKARA PAI AND JASWANT SINGH, BOTH OF SAKTHI ELECTRONICS, L-13, DR. VIKRAM SARABHAI INSTRONICS ESTATE, ADYAR, MADRAS-600 020, TAMIL NADU, INDIA.

Application No. 56/Mas/76 filed March 25, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 7 Claims.

A portable multipurpose radio receiver device for use particularly, though not exclusively, on vehicles, comprising a radio receiver circuit operated by a power supply and a main switch, characterised in that the said device also comprises first, second and third leads provided, respectively, for the audio stage of the receiver circuit, the remaining part of the radio receiver circuit and the speaker; and an auxiliary switch normally connecting the first and second leads together to complete the receiver circuit, the said auxiliary switch being operable, when required, to simultaneously (i) disconnect the first and second leads so as to isolate the audio stage circuit (along with the speaker) from the said remaining part of the receiver circuit (ii) connect the power supply to the audio stage circuit so as to furnish power thereto regardless as to whether the main switch is open and (iii) connect the first and third leads together to form a feed-back line, so as to produce an audible sound at the speaker.

CLASS 23G.

144400.

Int. Cl.-B65d 65/12, 65/14.

**IMPROVEMENTS IN OR RELATING TO BLANKS FOR CARTONS.**

*Applicant* : THE VAZIR SULTAN TOBACCO COMPANY LIMITED, OF AZAMABAD, HYDERABAD-500 020, A.P., INDIA.

*Inventors* : EKNATH PARSHURAM MEHENDALE.

Application No. 158/Mas/76 filed August 19, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims.

A blank for the production of parallelepiped carton such as for cigars, cigarettes and the like, made from cardboard, boxboard, hardboard, laminated paper, corrugated board, or plastics, the said blank comprising two panels of equal size, hereinafter referred to as a first and second panel, to form the front and back portions of the carton, the said two panels being flanked by two narrow or smaller panels, one between the said first and second panels, and the other at the end of the second panel, the said two narrow or smaller panels to form the two sides of the carton, the said two narrow or smaller panels being provided on either side with tongues or flaps to form tucks in forming the carton, and an overlapping panel or flap extending from the end of one of the smaller panels, and wherein the blank is provided with a cut out to form a hinge shaped lid for the carton, the said cut out extending from the said first panel to the edge of the said overlapping flap or panel.

CLASS 194C.b.

144401.

Int. Cl.-H01j 61/00.

**METHOD OF MANUFACTURING A MERCURY VAPOUR DISCHARGE LAMP.**

*Applicant* : N. V. PHILIPS' GLOEILAMPENE ABRIEKEN, AT EMMASINGEL, EINDHOVEN, NETHERLANDS.

*Inventors* : CORNELIS WITHELMUS ADRIANUS BLOMMERDE, JOHANNES ANTONIUS MARIA RIDDEKS AND HUIBREGT WESTERBEKE.

Application No. 525/Cal/75 filed March 17, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A method of manufacturing a mercury vapor discharge lamp in which a lamp vessel having an exhaust tube is used and in which the amount of mercury in a metallic form required for the operation of the lamp is present in a closed metal container arranged in the exhaust tube, which container, after pumping the lamp, is heated to such a temperature, that it opens owing to the mercury vapour pressure building up in it, characterized in forming a plate shaped container for mercury to be present in a depression therein either, by welding two metal parts, at least one of said parts having a depression in which the mercury is present or, by squeezing a deep drawn metal tube at the open end upto the mercury, said tube being closed at one end, said container extends in the longitudinal direction of the exhaust tube with its side edges resting on the inner wall of said exhaust tube so that during the pumping operation gases flow freely along the container.

CLASS 85G &amp; 90-I.

144402.

Int. Cl.-C03b 5/04.

**IMPROVEMENTS IN OR RELATING TO GLASS MELTING.**

*Applicant* : PILKINGTON BROTHERS LIMITED, OF PRESCOT ROAD, ST. HELENS, LANCASHIRE, ENGLAND.

*Inventors* : GEORGE ALFRED DICKINSON, WILLIAM JACKSON RHODES AND DERFY MARSHALL.

Application No. 790/Cal/75 filed April 18, 1975.

Convention date April 26, 1974/(18457/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

A glass melting tank in which glass batch materials are converted in a continuous process to a glass melt in a melting zone and the melt is subsequently refined in a refining zone prior to reaching a working end of the tank and discharge to a forming process, said tank having a liquid cooled barrier extending horizontally across at least part of the width of the tank in the path of forward flow towards the working end, the barrier being positioned at a height above the bottom of the tank so as to be located in the upper region of the melt and control the forward flow of molten material to the working end, and two or more stirrers mounted side-by-side across the direction of forward flow within a region adjacent the barrier for rotation about vertical axes, said stirrers being connected to drive means and arranged to stir the forward flow of glass melt.

CLASS 32F+ &amp; F-b &amp; 70C.

144403.

Int. Cl.-C07d 31/42.

**ELECTROCHEMICAL PROCESS FOR THE PREPARATION OF 3-AMINO METHYL PYRIDINE DIHYDROCHLORIDE FROM 3-CYANOPYRIDINE.**

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : HANDADY VENKATAKRISHNA UDUPA, VENKATASUBRAMANIAN KRISHNAN AND KANAKASABAPATHY RAGUPATHY.

Application No. 811/Cal/75 filed April 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

An electrochemical process for the production of 3-aminomethyl pyridine dihydrochloride from 3-cyanopyridine which comprises of first electro deposition of palladium black over graphite cathode and subsequent electro-reduction of 3-cyanopyridine in aqueous ethanolic hydrochloric acid medium to 3-aminomethyl pyridine dihydrochloride using the said cathode.

CLASS 32F.c.

144404.

Int. Cl.-C07c 101/06, C07c 99/00.

**IMPROVEMENTS IN OR RELATING TO THE ELECTROCHEMICAL PREPARATION OF BETA-ALANINE HYDROCHLORIDE FROM CYANOACETIC ACID.**

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : HANDADY VENKATAKRISHNA UDUPA, VENKATASUBRAMANIAN KRISHNAN AND KANAKASABAPATHY BAGUPATHY.

Application No. 812/Cal/75 filed April 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

Improved electrochemical process for the preparation of Beta-alanine hydrochloride from cyanoacetic acid using a palladium electrode—characterised in that the electrode used consists of graphite on which a layer of palladium black is electrodeposited using an aqueous acid solution containing palladium chloride and ammonium chloride.

CLASS 164A.

144405.

Int. Cl.-C02c 1/02, 1/06.

**AN ACTIVATED SLUDGE SEWAGE TREATMENT PROCESS.**

*Applicant* : UNION CARBIDE CORPORATION, LOCATED AT 270 PARK AVENUE, NEW YORK STATE OF NEW YORK-10017, UNITED STATES OF AMERICA.

**Inventors :** GILBERT VICTOR LEVIN, GEORGE JIRI TOPOL AND ALEXANDR GREGOR TARNAY.

Application No. 1237/Cal/75 filed June 23, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

An activated sludge sewage treatment process which comprises aerating a mixed liquor comprising phosphate-containing influent sewage material and activated sludge in an aeration zone to reduce the BOD content of said sewage material and to cause the microorganisms present to take up phosphate; separating the phosphate-enriched sludge from the mixed liquor to provide a substantially phosphate-free effluent; passing said phosphate enriched sludge to a phosphate stripping zone and settling said phosphate-enriched sludge to form supernatant liquor in said stripping zone upper section, and settled sludge; maintaining at least part of said settled sludge under anaerobic conditions for a time sufficient to release phosphate to the liquid phase of said settled sludge; contacting the anaerobic sludge containing released phosphate with a lower soluble phosphate content medium to transfer the soluble phosphate in the anaerobic sludge liquid phase to said lower soluble phosphate in the anaerobic sludge liquid phase to said lower soluble phosphate medium, for phosphate enrichment of supernatant liquor in said stripping zone upper section; and recycling at least a portion of said anaerobic sludge from said phosphate stripping zone to said aeration zone as said activated sludge.

CLASS 40F.

144406.

Int. Cl.-B01d 47/00.

**APPARATUS FOR CARRYING OUT THE ABSORPTION OF GASEOUS SUBSTANCES WHICH INVOLVE HEAT WITH A LIQUID MEDIUM.**

**Applicant :** SNAMPROGETTI S.P.A., OF CORSO VENEZIA 16, MILAN, ITALY.

**Inventors :** GIORGIO PAGANI, ANDREA BONETTI AND FRANCESCO SAVIANO.

Application No. 623/Cal/76 filed April 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

An apparatus adapted to carry out the absorption of gaseous substances which evolve heat, more particularly ammonia, with a liquid medium, more particularly water, comprising a casing which encloses a bundle of vertical tubes, two tube-plates to which said tubes are affixed, one or more tubes for feeding the absorbing liquid at points above the tube bundle, a conventional system for the distribution of the liquid in a film form in the interior of the tubes, one or more tubes for the inlet of the gases to be absorbed at the base of the casing or in the vicinity thereof, one or more tubes for the inlet and outlet from the casing shell for the solution as obtained upon absorption, one or more tubes for the outlet of the non-absorbed gas, characterized in that one or more plates are arranged in the interior of the casing above the tube bundle, said plates being sprinkled by absorbing liquor fed in through one or more main inlets above the top plate.

CLASS 32F.

144407.

Int. Cl.-C07d 27/22, C07d 27/24.

**PROCESS FOR THE PREPARATION OF HALO-SUBSTITUTED 1-LOWERALKYL-5-AROYLPYRROLE-2-ACETIC ACID COMPOUNDS.**

**Applicant :** MCNEIL LABORATORIES, INCORPORATED, LOCATED AT CAMP HILL ROAD, FORT WASHINGTON, PENNSYLVANIA, U.S.A.

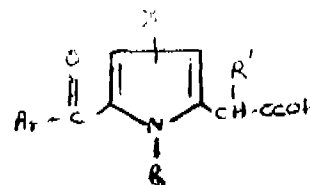
**Inventor :** JOHN CARSON.

Application No. 897/Cal/76 filed May 24, 1976.

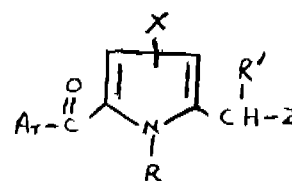
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A process for preparing a halo-substituted 1-loweralkyl-5-aroypyrrole-2-acetic acid compound of formula I'



wherein X is a member selected from the group consisting of chloro and bromo, R is C<sup>1-4</sup> loweralkyl, R' is a member selected from the group consisting of hydrogen and methyl and Ar is a member selected from the group consisting of phenyl and phenyl substituted with from one to three members each selected from the group consisting of halo, C<sup>1-4</sup> loweralkyl, methoxy, trifluoromethyl, methylthio, and methylsulfinyl provided that no more than two are selected from the group consisting of trifluoromethyl, methylthio, and methylsulfinyl. Characterized by subjecting a compound of the formula I''



wherein Z is -CN or COOR'' to conventional nitrile—to—acid or ester-to-acid hydrolysis, in order to prepare a compound of the formula I' wherein R'' is C<sup>1-5</sup> lower alkyl, with the proviso that when Y is on the 3-position, then Z is -COOR''

CLASS 47A & 84C.

144408.

Int. Cl.- C10b 47/00.

**PROCESS FOR MANUFACTURING COKE.**

**Applicant :** MISUI COKE CO. LTD., OF NO. 1-1, MUROMACHI 2-CHOME, NIHONBASHI, CHUO-KU, TOKYO, JAPAN.

**Inventors :** HIDEHIKO SUGIMURA AND KEICHIRO KOKA.

Application No. 571/Cal/76 filed March 31, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A process for manufacturing coke comprising the steps of

- dissolving at least one component selected from the group consisting of bituminous coal, sub-bituminous coal, brown coal and lignite in a hydrocarbon solvent under hydrogenation conditions to produce a solution;
- distilling said solution and recovering a reformed coal as a distillation bottom product;
- blending said reformed coal with at least one other coal which is suitable for carbonization; and
- subjecting said blended coal to coking conditions.

**OPPOSITION PROCEEDINGS**

(1)

The opposition entered by The Cementation Company Limited to the grant of a patent on application No. 131024 made by Amitava Ghosh Dastidar as notified in Part III, Section 2 of the Gazette of India dated the 29th December 1973 has been successful in part and the application for patent No. 131024 has been refused.

(2)

The opposition entered by Machinery Manufacturers Corporation Ltd. to the grant of a patent on application No. 142766 made by John Dargan Hollingsworth as notified in Part III, Section 2 of the Gazette of India dated the 18th March, 1978, has been rejected.

(3)

An opposition has been entered by Council of Scientific and Industrial Research to the grant of a patent on application No. 142838 made by Metallgesellschaft A. G.

(4)

An opposition has been entered by Belpahar Refractories Limited to the grant of a patent on application No. 142933 made by Orissa Cement Limited.

(5)

An opposition has been entered by Dalmia Institute of Scientific & Industrial Research to the grant of a patent on application No. 143144 made by Mayur Chemical Industries.

(6)

The opposition entered by The Cementation Company Limited to the grant of a patent on application No. 134526 made by Amitava Ghosh Dastidar as notified in Part III, Section 2 of the Gazette of India dated the 29th December 1973 has been successful in part and the application for patent No. 134526 has been refused.

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8 Hastings Street, Calcutta, at two rupees per copy :—

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#### PATENTS SEALED

141737 141834 141846 141865 141867 141868 141879 141888  
141891 141892 141893 141898 142186 142232 142247 142288  
142299 142301 142317 142324 142352 142394 142447 142467  
142473 142474 142485 142492 142494 142496 142509 142516  
142518 142532 142559 142562 142563 142564 142565 142672  
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142647 142648 142658 142664 142668 142669 142703 142709  
142710 142712 142732 142740 142743 142753 142784 142801  
142804 142823 142858 142866 142877 142980 143262

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendments proposed by Mitsui Toatsu Chemicals, Incorporated, in respect of patent No. 140043, as advertised in Part III, Section 2 of the Gazette of India dated the 26th November 1977 have been allowed.

#### COMMERCIAL WORKING OF PATENTED INVENTION

LIST NO. 5

The following patents in the field of General & Mechanical Engineering Industry are not being commercially worked in India as admitted by the Patentee in the statements filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calendar year 1976 generally on account of want of requests for licenses to work the patented inventions, persons who are interested to commercially work the said patents may contact the patentee for the grant of a licences for the purpose.

Sl. No	Patent No.	Date of Patent	Name and address of Patentee	Brief title of invention
1	2	3	4	5
1	134902	10-03-1972	Dunlop Limited, Dunlop House, Ryder Street, St. James London, S.W. 1, England.	Power transmission conveyor and vehicle tract belts.
2	134930	14-03-1972	Dow Chemical Co. Midland, Michigan, U.S.A.	Apparatus for delivering and compacting particulate materials into container.
3	134936	30-05-1973	Union Carbide India Limited, 1 Middleton Street, Calcutta-16.	Pneumatic wind direction transmitter.
4	134947	15-03-1972	Japan Foods, Storage & Packing Co. Ltd., 15, Morimoto-Cho, Shimogama, Sakyo-ku, Kyoto, Japan.	Packing free flowing granular or powdered materials into a tightly sealed shaped form and the type of packages resulted.
5	134952	15-03-1972	Dunlop holdings Ltd. Dunlop House, Ryder Street, St. James London, S.W. 1, England.	Pneumatic tyre and wheel assemblies.

1	2	3	4	5
6	134960	16-03-1972	Australian Wire Industries Proprietary Ltd. 500 Bourke Street, Melbourne, Victoria, C. of Australia.	Apparatus for cooling coatings on moving wires, stripes or other continuous lengths of materials.
7	134970	17-03-1972	USS Engineers & Consultants Inc., 600 Grant St., Pittsburgh, Pennsylvania, USA.	Apparatus for determining true temperature of surface by radiation.
8	134975	17-03-1972	Wilhelm Stahlecker GmbH, D-7341, Reichenbach bei, Geislingen; steige, W. Germany.	Break or open end spinning rotor of turbine.
9	134980	18-03-1972	Vysoke Ucení Technike, Bruo, Czechoslovakia.	Fuel injection pump of the piston type for I-C engines.
10	134991	20-03-1972	Repla International S.A.H., 56, Bvd. Nepelean, Luxemburg, Grand Duchy of Luxembourg.	Producing article catching strip and an article catching strip produced thereby.
11	134996	20-03-1972	Koninpijke Emballage Industrie Van leer N.V. Amersdamseweg 20b, Amsterveer, The Netherland.	Bushing for coupling such as a container closure and method for mounting it.
12	135000	20-03-1972	Vysoke Uceintehnikke, Barno, Czechoslovakia.	Injection unit for injection pumps of combustion engines.
13	135018	22-03-1972	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Seal for sealing an annular space and such seal in combination with a master cylinder assembly.
14	135019	22-03-1972	Sperry Rand Corp., Crooks & Maple Road, Troy, Michigan 48084, U.S.A.	Hydraulic Pumps.
15	135022	22-03-1972	William Pyrm Werke KG. 519, Stolborg, /Rhid Zecc-faler Str., 5-7, F.R.G.	Apparatus for manufacturing a sliding clasp fastener.
16	135046	24-03-1972	Vsesojuzny Proektirovaniye, 106 Moscow, U.S.S.R.	Device for rigging the position and gripping a work-piece.
17	135053	25-03-1972	E.F. Baxter, 1 Grover Mill Gardens, London, W. 1 England.	Pneumatic tyres.
18	135057	25-03-1972	Karl Fischer Apparate- und Rohrleitungsbau, Holzhauserstr. 159/165, 1 Berlin 27, F.R. of Germany.	Tube bundle heat exchanger.
19	135069	27-03-1972	Thermo king Corp., Minneapolis, Minnesota, U.S.A.	A compressor refrigerant system employing a fluorocarbon, refrigerant combined with a lubricating composition.
20	135083	28-03-1972	Fruehuf Corp., 2350, Bandong Avenue, Alameda, California 94501, U.S.A.	Rope Suspension system.
21	135084	28-03-1972	Automotive Products Ltd. Tachbrook Road, Leamington Spa, Warwickshire, England.	Friction clutches.
22	135099	29-03-1972	Svenska Aktiebolaget Bramsh Regulator; Adelgatan 5, 21122, Malmo Sweden.	Force transmitting device of a weighing valve for a vehicle.
23	135105	30-03-1972	Rohm & Haas Co.; Independence Mall West, Philadelphia, Pennsylvania, 19105, U.S.A.	Preserving storable crops.
24	135126	01-04-1972	Marck Isaakovich, Frenkel Leningrad, Ulitsa, Karbysheva, 6, Kotpus, 2 KV 20, U.S.S.R.	Direct flow cylindrical valve.
25	135128	03-04-1972	Saint Gobain Industries; 62, Blvd Victorhugo, Neuilly-sur-Seine, France.	Apparatus for the manufacture of fibres from molten thermoplastic material.
26	135151	04-04-1972	USS Engineers & Consultants Inc.; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Operating mechanism for slidable gate closures.
27	135167	04-04-1972	Parks Cramer; P.O.B. 444, Fitchburgh, Massachusetts U.S.A.	Device for cleaning elongated textile machines such as spinning.
28	135168	04-04-1972	Maschinenfabrik Zell J. Keuckels 7867 Zell (Weckental) F.R. of Germany.	Winding machine for sheet material.
29	135176	05-04-1972	McNeil Corp.; 96 East Crosier Street, Akron, Summit County, OHIO 44311, U.S.A.	Apparatus for controlling manufacturing process.
30	135177	05-04-1972	USS Engineers & Consultants Inc., 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Apparatus for treating liquid steel.
31	135186	06-04-1972	Do.	Apparatus for replacing a holder for pouring tube on a bottom pour vessel.
32	135187	06-04-1972	The Firestone Tire & Rubber Co; 1200 Firestone Parkway, Akron, Ohio-44, 317, U.S.A.	Apparatus for mixing & forwarding a flowable material.
33	135216	10-04-1972	Mefina S.A. 5, Route Beaumont, Fribourg, Switzerland.	Device for coupling a fly-wheel to a shaft.

1	2	3	4	5
34	135237	11-04-1972	Sulzer Brothers Limited Winterthur, Switzerland.	Differential gears.
35	135250	12-04-1972	Ford Motor Co. of Canada Limited, The Canadian, Road, Oakville, Ontario, Canada.	Guided vehicle power supply system.
36	135270	13-04-1972	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Low Carbon steel sheets with improved magnetic properties.
37	135274	13-04-1972	F. L. Smidth & Co., A/s. 77 Vigerslev Alle, Copenhagen-Valby, Denmark.	Screw Elevators.
38	135281	15-04-1972	Compagnie-Generale D'Enterprises Electriques, 13 rue Antonin Raynaud, 92 Levallois-Perret, France.	Fixing device for support element.
39	135305	17-07-1973	New Standard Engineering Co. Limited. N.S.E. Estate, Goregaon, Bombay-India.	Device for mounting suction tubes on front rollers of textile spinning mechanism.
40	135314	18-04-1972	Mefina S.A 5 route de Beaumont, Fribourg, Switzerland.	Sewing machine.
41	135336	19-04-1972	Donatsky Filiah Vnipchermetotor-Goochietka, Bulvar, Shevchenko, 19, U.S.S.R.	An absorption refrigeration installation.
42	135353	15-09-1971	N.S. Sathaye, Nalanda D-15, Anushakti Nagar, Deonar, Bombay-400094.	Device for lighting a gas stove.
43	135359	03-05-1972	F L. Smidth & Co., A/S, 77 Vigerslev Alley, Copenhagen-Valby, Denmark.	Rotary kiln plant for manufacturing cement.
44	135369	25-05-1972	Girling Limited, Kings Road, Tyseley, Birmingham, 11, England.	Fluid level indicating devices.
45	135405	08-07-1971	Carrier Corp; Syracuse, New York, U.S.A.	Hermetic motor compressor Unit.
46	135407	01-05-1972	Branschweigische Maschinenbauanstalt, 3300, Branschweig, Am Alten Bahuhoj, 5, F. R. of Germany.	Continuously, operating sugar centrifugal.
47	135428	26-04-1972	Thomas Walker Limited, 29 St., Paul's Square, Birmingham B3 1 Qr. England.	Fastening devices.
48	135441	18-07-1972	Glass Tubes & Components Limited, Sheffield Road, Chesterfield, Derbyshire, England.	Production of one piece stemware from glass etc.,
49	135447	05-05-1972	Mefina S.A. ; 5, Route de Beaumont, Fribourg, Switzerland.	Presser foot for sewing machine.
50	135450	23-07-1971	Scaled Power Corp; 2001 Sanford street, Muskegon, Michigan 4943, U.S.A.	Spacer expanders.
51	135451	23-07-1971	Do.	Do.
52	135452	23-07-1971	Do.	Do.
53	135453	23-03-1971	Do.	Do.
54	135454	05-07-1972	Ruti Machinery Works Ltd., CH- 8630 Ruti, Zurich, Switzerland.	A device for braking the picker stick of a loom.
55	135464	20-07-1972	The Glacier Metal Co. Limited, 368 Ealing Road, Alperton, Wembley, Middlesex, England.	Apparatus for making bearings.
56	135469	18-05-1972	Variable Kinetic Drives Ltd., Rose Cottage, Pillory Green Napton Rugby, Warwickshire, England.	Toroje converter coupling.
57	135471	23-06-1972	Howard Dernard Forster, 35 Thorncliffe, Drive Toronto, Ontario, Canada.	Pessaries.
58	135495	01-10-1971	Associated Engineering Limited 60 Kanilworth Road, Leamington Spa. Warwickshire, England.	Fuel Pressure regulator.
59	135497	15-06-1972	Imperial Chemical Industries Limited, Imperial Chemical House, Nillbank, London S.W. 1, England.	Apparatus for controlled feeding of powdered material.
60	135510	29-08-1972	Envirotech Corp; 37 West 6th South, Salt Lake City, Utah, U.S.A.	Belt guide and tensioning device for horizontal filters.
61	135516	07-07-1972	Georgy Mikhailovich & Others, Ulitsa Gorkoga, 43, KV, Moscow.	Device for dynamic balancing of rotors.
62	135524	15-06-1972	Moskovsky Gosudarstvenny etc.; Metro storesvskaya, Ulitsa, 38, Moscow, U.S.S.R.	Teaching machine preferably for studying foreign languages.
63	135532	12-09-1972	Intermenea (Proprietary) Limited, 25th Floor, Trust, Bank Centre, Corner Main & Eloof Sts., Johannesburg, Republic of South Africa.	Shearing machines.
64	135545	19-07-1972	F. L. Smidth & Co. A/S, 77 Vigerslev Alle, Copenhagen Valby, Denmark.	Rotary Kiln.
65	135547	04-07-1972	Tadusz Sendzimir; 269, Brookside Road, Waterbury, Connecticut 06720, U.S.A.	Rolling mills.
66	135562	01-08-1972	Envirotech Corp; 537, West 6th South, Salt lake city, Utah, U.S.A.	Apparatus for rotary filters.



1	2	3	4	5
67	135568	04-10-1972	The Goodyear Tyre & Rubber Co. Ltd., 1144, East Market Street, Akron, Ohio, U.S.A.	Towable floating storage containers.
68	135576	02-08-1973	Girling Limited, Kings Road, Tyseley, Birmingham 11, England.	Servo-boosters for vehicle brake systems.
69	135587	16-11-1972	Shell Internationale Research Maatschappij B.V. 30 Carel Van Bylandtlaan The Hague, The Netherlands	Package for hazardous materials.
70	135602	16-05-1972	Westinghouse Air Brake Co.; Pittsburgh, Pennsylvania, U.S.A.	Quick service valve device for fluid pressure brake system
71	135603	26-04-1972	Heimo Geratebau; 7972 Isny/Allgäu, May-Lyth-Weg 42, G.F.R.	Spraying or smoke laying apparatus.
72	135606	04-11-1972	Girling Limited Kings Road, Tyseley, Birmingham 11, England.	Two pedal Hydraulic Braking system.
73	135607	18-08-1972	N. V. BEKEART S.A. Leo Bekertstraat 1. B-8550 Zwevegem, Belgium.	Reinforcements for vehicle tyres.
74	135611	15-06-1972	D. P. Joshi, & B.P. Menon, Both of Railway Staff college, Vadodara. Qua. No. 10, Lalbaug, Baroda-4, India.	A screw down stop valve mechanism.
75	135612	27-07-1972	Tsentralny Nauchno etc.; Moskovskoe Shosse 85 Gorky, U.S.S.R.	Preparation of material for lubrication of external surface of drilling string.
76	135615	01-06-1972	Sperry Rand Corpn; Crooks & Maple Roads, Troy, Michigan-48084, U.S.A.	Pumps and Motors.
77	135621	03-07-1972	William Prym Werke K.G., 519, Stalberg/Rhld. Zweifaller Street, 5-7, F.R. of Germany.	Apparatus for manufacturing sliding clasp fastener.
78	135624	20-10-1972	Osprey Metals Limited, Red Jacket Works, Millands, Neath, Glamorgan, SAH 1NJ, WALES.	A method of manufacturing shaped precision articles from molten metal or metal alloy.
79	135632	30-08-1972	Brush Steel Corpn; 30 Grosvenor Place, London S.W. 1, England.	Internal Bead trimmers.
80	135635	29-06-1972	Trutzschler & Co.; Duvensstrasse, 82-92, Rhydt Odenkirchen W. Germany.	A vertical duck for settling fibrous flock
81	135643	11-09-1972	Dunlop Limited Dunlop House Ryde Street, St James London, S.W. 1, England.	Tyres.
82	135666	26-06-1972	Extracorporeal Medical Specialities Inc; Royal & Rose Road, King of Pessia, Pennsylvania, U.S.A.	Servicable surgical needle.
83	135685	17-08-1972	Anderson Clayton & Co.; 1010 Milam Street, 14th Floor, Tenneco Bldg., Houston Texas 77002, U.S.A.	Seed delinter.
84	135696	05-12-1972	The Textile and Allied Industries Research Organisation, 1960, Kala Bavan Premises, Baroda-390001, India.	Rotor for open end spinning.
85	135697	05-12-1972	Do.	Open end spinning device.
86	135698	05-12-1972	Do.	Housing for an open-end rotor.
87	135711	03-05-1972	Clayton Dewandre Co.; Ltd., Titanic Works, Lincoln, England.	Introducing Antifreeze solution into compressed air systems
88	135717	10-09-1972	Metropolitan Tool & Products Limited, Lilac Grove, Beeston, Nottingham NG 91 PG, England.	Drive arrangements for cable reeling drums.
89	135718	12-01-1973	Thyssen Niederrhein AG; 42, Oberhausen, Essener Str., 66 GFR.	Charging apparatus for a shaft furnace.
90	135735	17-05-1972	F. L. Smidth Co. A/S 77 Vigerslev, Alle, Copenhagen-Valby-Denmark	Rotary Kiln.
91	135737	14-07-1972	Girling Limited, Kings Road, Tyseley Birmingham 11, England.	Railway brakes
92	135738	06-09-1972	Gewako S.A.; 2 Blvd Royal, Luxembourg.	An arrangement related to inflatable life rafts.
93	135743	09-08-1972	Hepworth ; Grandage Limited, St., John's Works Bedford 4, Yorkshire, England.	Light metal pistons for I-C engines, or compressors.
94	135751	08-08-1972	The Timken Co.; 1835 Duebar Avenue, Canton, Ohio U.S.A.	Rolling Strip Material.
95	135752	04-05-1972	Tye Torrington Co.; 59 Field Street, Torrington, Connecticut, U.S.A.	A needle for use in a slot of a knitting machine cylinder.
96	135754	19-09-1972	F. L. Smidth & Co. A/S; 77 Vigerslev Alley Copenhagen-Valby, Denmark.	Rotary Kiln.
97	135757	31-10-1973	Shekharendra Nath Das Guata, BN 48, Cokeoven Battery Colony, P.O. Durgapur 2, Dist. Burdwan, W. Bengal.	Crusters

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98	135759	25-05-1972	Girling Limited, Kings Road, Tyseley, Birmingham, 11, England.	Fluid level indicating devices.
99	135773	08-09-1972	Wilhelm Stahlecker GmbH; D 7341 Reichenbach bei, West Germany.	Mountings for open-end or brake spinning machines.
100	135774	08-09-1972	Do.	Open-end spinning machines
101	135776	16-08-1971	Bico Engineering Ltd., Holbrook Lane Coventry, Warwickshire, England.	Making fuel injector.
102	135777	02-06-1972	Institut Elektroniki etc. & Others, Taskent Observatory-staya, 85, U.S.S.R.	Cotton seed dehnting machine.
103	135788	07-07-1972	Donald John Steidinger, P. O. Box 224, Barrington, Illinois, U.S.A.	Stuffer sealed envelope assembly.
104	135793	13-06-1972	Karl Fischer Apparate- u. Rohrleitungsbau, Holzhauserstr. 159/165, 1, Berlin 27, F.R. of Germany.	Tube condensor
105	135813	05-04-1971	Eastman Kodak Co.; 343, State Street, Rochester, New York 14650, U.S.A.	Photographic camera for use in camera cartridge combination.
106	135816	13-06-1972	Elkem-pigeverket A/S; Elkemhuset, Middlethungsgaten 27, Oslo, Norway.	Rotable gastight valve.
107	135819	16-06-1972	Uralsky Zavod Tyachelogo Mashino-strojniya-stroina Imeni Sergooidzhonikidzhe; Sverdlovsky, U.S.S.R.	Plant for continuous casting of metal.
108	135822	19-09-1972	Massey Ferguson etc.; Netherlands Antilles.	Draft control linkage for tractor.
109	135824	21-04-1972	Dunlop Ltd., Dunlop House, Ryder Street, St., Jame's, London, S.W. 1, England.	Flexible reinforcing structures suitable as reinforcement in flexible articles such as hose.
110	135853	05-07-1972	Ford Motor Co. of Canada Ltd., The Canadian Rd., Oakville, Ontario, Canada.	Guided transportation system.
111	135855	03-07-1972	Sohubert and Salzer Maschin Akt; Freidrich Eberstrasse 84, 8070, Ingolstadt, Germany.	Open and spinning apparatus.
112	135856	03-07-1972	Do.	Fibre mixing devices.
113	135861	19-07-1972	Creusot-Loire S.A.; 5 Rue, de Muntessuv, Paris 7 <sup>e</sup> France & Emil Sprunck of 5 rue Joffre, Moyeuivre-Grande, France.	Device for introduction to multiple separate feeds.
114	135862	20-06-1972	Sandvik Aktiebolag; Fack 5-811 01, Sandviken 1, Sweden.	Cutting tools.
115	135877	23-05-1972	F. Hoffmann-La Roche & Co. AG; 124-184 Grenzecherstrasse, Basle, Switzerland.	Package for maintaining non-spore form of bacteria.
116	135881	25-07-1972	I.G. Reick and Others, 228 West Place, West Wood, New Jersey, U.S.A.	Surgical evacuator.
117	135883	08-08-1972	Union Carbide Corp.; 270 Park Avenue, New York, N.Y. 10017, U.S.A.	Rescalable vent closure for sealed galvanic dry cell.
118	135888	08-08-1972	Fibreglass Limited, 201-211, Martins Bldg., Water street, Liverpool, 12, 85 R, England.	Winding apparatus.
119	135892	26-10-1972	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Shoe drum-brakes.
120	135904	21-04-1972	Chief Controller Research & Development Organisation, Ministry of Defence, Govt. of India, New Delhi.	A height corrector or compensator.
121	135905	21-04-1972	Do.	Vibration isolation device.
122	135910	29-05-1972	Herbert Alexander Girard, 1025 Woolland Drive, Gastonia, North Carolina, U.S.A.	Yarn packages.
123	135914	08-05-1972	Girling Limited Kings Road, Tyseley, Birmingham 11, 11, England.	Disc. brakes.
124	135917	08-06-1972	Dunlop Limited, Dunlop House, Ryder Street, St. Jame's London S.W. 1, England.	Tyre Building apparatus.
125	135926	15-11-1972	Massey Ferguson Inc. Antilles Abraham de Veerstraat 7A, Curaçao Netherlands.	Draft sensing Unit for tractor.
126	135928	01-07-1972	Alpura-Koreco A.G., Konolfingen, Switzerland.	Apparatus for controlling the atmosphere of the sterile chamber in an aseptic packaging machine.
127	135929	01-07-1972	Do.	Apparatus for sterilizing the outside of the filling pipe in an aseptic packaging machine.
128	135933	24-10-1972	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Tandem master cylinder for hydraulic braking systems.
129	135935	22-11-1972	Do.	Internal shoe drum brakes.
130	135955	17-05-1972	Sheriff Gordon Mints Limited, 25 King Street, West, Toronto, Ontario, Canada.	A coin blank or a medallion blank or minted coin or medallion.

1	2	3	4	5
131	135959	15-02-1973	Indian Jute Industries Research Association, 17 Toratola Road, Calcutta-53.	Means for mechanical extraction of a proportionate amount batch oil from textile products.
132	135960	15-02-1973	Do.	Do.
133	135980	28-04-1972	The Jacobs Manufacturing Co Limited, Archer Tool Works, Archer Road, Sheffield, England	Means for determining oil content in textile products.
134	135988	01-05-1972	Sperry Rand Corp., Crooks & Maple Roads, Troy, Michigan 48084, U.S.A.	Drill Chucks
135	135992	08-06-1972	Imperial Chemical Industries Limited, Imperial Chemical House, Millbank, London SW 1, England	Valves for fluids
136	135993	26-06-1972	USS Engineers & Consultants Inc, 600 Grant Street, PITTSBURGH, PENNSYLVANIA, U.S.A.	Packaging
137	136000	03-08-1972	C.A.V. Limited, Well Street, Birmingham 19, England	Temperature sensing device for continuous casting moulds.
138	136002	24-04-1972	Febrica Italiana Magneti Marelli S.p.A Via Guastalla n 2 Milano, Italy	Rotary sliding vane pump
139	136007	27-06-1972	Robert Habib, 3 rue de Beaumont, 1200 Geneva, Switzerland	Continuously & intermittently operating vehicle windscreen wiper
140	136016	03-07-1972	Wilhelm Hegler, Bad Kissinger, Geothestr, 2, G.F.R.	Machine tool.
141	136025	20-07-1972	Dr. Carl Hahn K.G. Kaiserswerther, Strasse, 270, 4000, Dusseldorf, W. Germany.	An apparatus for the production of pipes or of tubes of synthetic plastic material containing an internal parting wall
142	136038	21-12-1972	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Tampones
143	136052	19-06-1972	Sperry Rand Corp.; Crooks & Maple Road, Troy, Michigan 48084, U.S.A.	Apparatus for manufacturing a hot metal tundish on a gantry car
144	136057	19-06-1972	Do.	Valves for fluids
145	136062	22-06-1972	Girling Limited, Kings Road, Tyseley, Birmingham 11, England	Do.
146	136077	18-07-1972	British Insulated Callender's Cables Ltd, 21, Bloomsbury street, London, W.C. 1, England	Disc. for vehicles.
147	136080	12-01-1973	Societe D' Equipments, Manutentions, Et Transports; 114 Bis, rue Michel-Ange, 75016 Paris, France.	Apparatus for drawing wires
148	136083	01-06-1972	Sperry Rand Corp.; Crooks & Maple Roads, Michigan, Troy, Michigan, 48084, U.S.A.	Drive for loading materials into a container.
149	136087	21-09-1972	Caterpillar Tractor Co; 100 N.E., Adams Street, Peoria, Illinois. 61629, U.S.A.	Hydraulic Pumps.
150	136088	29-05-1962	Leningradsky Metall etc; Sverdlovskaya, Nabershnaya, 18, Leningrad, USSR	Track idler wheel.
151	136090	13-02-1973	Beloit Corporation, 1st, Lawrence Avenue, Beloit, Wisconsin, U.S.A.	Regulating valves.
152	136103	04-01-1972	Chicago Pneumatic Tool Co; 6 East 44th Street, New York, N.Y., U.S.A.	Slice lip for a headbox of paper making machines
153	136104	04-01-1972	Do	Crimping mechanism in nut runner
154	136115	07-06-1972	Veb. Filmbabrik etc; 117, Berlin Friedrichshagen Str., GDR	Nut crimping mechanism.
155	136126	16-09-1972	Deree & Co; Moline, Illinois, U.S.A.	Transport container for roll shaped light-sensitive photographic materials.
156	136127	30-10-1972	RCA Corp; 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A.	Self-levelling combine.
157	136142	27-05-1972	Warner & Swasey Co University Circle Research Centre, 11000 Cedar Avenue, Cleveland Ohio-44106, U.S.A.	Apparatus for and method of, correcting a defective photograph.
158	136143	17-11-1972	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Machine tools.

#### REGISTRATION OF ASSIGNMENTS, LICENCES, ETC (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests:—

107323 Fedders Corporation

#### PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the

Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

#### No. & Title of the invention

129806 (31-12-70) Process for manufacturing granular compound fertilizer

132715 (1-7-72) Preparation of adherent rubber electrodeposits over aluminium from natural rubber latex

132782 (4-9-71) Process for preparing an improved catalyst for producing oxirane compounds by epoxidizing olefins with hydroperoxides

Bending roll unit for continuous casting machines.

- 132960 (20-4-72) Process for the production of new pyrazole. [3, 4-e] [1, 4] diazepin-7 (1H)-one compounds.
- 132961 (20-4-72) Process for the production of new pyrazole [3, 4-e] [1, 4] diazepin-7 (1H)-one compounds.
- 135150 (4-4-72) Method for reduction roasting nickeliferous laterite ores.
- 135663 (25-7-72) Process for producing 4-hydroxymethyl-1-keto-1, 2-dihydrophthalazine and acid salts thereof.
- 135680 (24-5-72) New process for the manufacture of pipe-zine derivatives.
- 135681 (4-7-72) Separation of halogenated alkyl ethers by azeotropic distillation.
- 135724 (20-4-72) A process for preparing cyclic thioimides.
- 135771 (18-9-72) A process for the continuous production of benzotrichloride.
- 135803 (3-5-72) Fluidized catalytic cracking or fluidized catalytic dehydrogenation process.

## RENEWAL FEES PAID

72249 76389 77900 78274 78342 79536 79544 79986 80677  
 81049 82472 82567 82605 83880 84972 87112 87133 87231  
 87363 87423 87537 87850 88429 88539 88585 88613 88946  
 89487 90661 90980 91354 92442 92884 92985 93001 93061  
 93092 93150 93203 93220 93222 93223 93304 93307 93322  
 93328 93520 93534 93643 94264 94265 94274 94909 95717  
 96283 96839 97212 97304 98136 98137 98315 98680 98785  
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 126163 126210 126235 126253 126316 126349 126405 126422  
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139613 139615 139828 139880 139898 139919 139927 139942  
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 141224 141243 141252 141422 141434 141457 141655 141691  
 141791 141811 141921 141936 142113 142123 142201

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 145239. Hind Glass Industries, An Indian Registered Partnership Firm having at Pranjivan Building, Narayan Dhuru Lane, Abdul Rehman Street, Bombay-400003, Maharashtra, India. "Mirror frame". February 18, 1977.

Class 1. Nos. 145376, 145377 & 145378. Veer Industries (India), Bagpat Road, Meerut, U.P. (An Indian partnership concern) "Stove". March 25, 1977.

Class 3. Nos. 144670, 144671 & 144672. Philips India Limited, of Shivasagar Estate, Block "A", Dr. Annie Besant Road, Worli, Bombay-18 (W.B.) Maharashtra State, India, an Indian Company. "The front panel for Radio". August 27, 1976.

Class 3. No. 144760. Metal India Industries, 267, Janjikan Street, Bombay-400002, Maharashtra State, India an Indian Partnership Firm. "Torch" September 27, 1976.

Class 3. No. 145504. Bright Brothers Limited, a Company Incorporated in India, 156A Tardeo Road, City of Bombay, State of Maharashtra, India. "Bowl". May 2, 1977.

Class 3. No. 145505. Bright Brothers Limited, a Company Incorporated in India, 156A Tardeo Road, City of Bombay, State of Maharashtra, India. "Canisters". May 2, 1977.

Class 4. Nos. 146122 & 146123. Indo Bangla Traders, 77, Ashutosh Mukherjee Road, Calcutta-700025, Indian Partnership Firm. "Electrical Cut Out". October 13, 1977.

Class 5. No. 145175. Unisystems Private Limited, an Indian Company, of 25, Community Centre, East of Kailash New Delhi-110048, India. "Cardboard Boxes". February 2, 1977.

## COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design No. 145073. Class 1

## COPYRIGHT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS

Design Nos. 132581, 132582, & 145073. Class 1.  
 Design No. 132946. Class 3.

## CANCELLATION OF THE REGISTRATION OF DESIGNS

(Section 51A)

(1)

The application made by Asrar Ahmed, trading as General Metal Works for cancellation of the registration of Design No. 139840 as notified in the Gazette of India, Part III Section 2, dated 11th August, 1973 has been rejected.

(2)

The application made by Asrar Ahmed, trading as General Metal Works for cancellation of the registration of Design No. 139841 as notified in the Gazette of India, Part III, Section 2 dated 11th August, 1973 has been rejected.

(3)

The application made by Spezialfabrik Moderner Pumpen Ernst Vogel Stockerau for cancellation of the registration of Design No. 140424 as advertised in the Gazette of India, Part III, Section 2 dated 9th March 1974 has been rejected.

S. VEDARAMAN  
 Controller-General of Patents, Designs and Trade Marks.